1. Design a Web page containing your details as in Resume to display in your blog.

Aim: Design Resume in HTML-5.

Description:

HTML is the standard markup language for Web pages. HTML-5 is used to design static HTML web pages. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages. HTML 5 is the fifth and current version of HTML

Tags used :

Table Tag

An HTML table is defined with the “table” tag. Each table row is defined with the “tr” tag. A table header is defined with the “th” tag. By default, table headings are bold and centered. A table data/cell is defined with the “td” tag.

```
<table (attributes….)>
      <tr>
            <th>…  </th>
      </tr>
      <tr>
            <td>….</td>
      </tr>
</table>
```

HTML List Tag

Unordered HTML List
An unordered list starts with the <ul> tag. Each list item starts with the <li> tag.
Ex:-

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

Ordered HTML List
An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.
Ex:-

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

Procedure:

1. Use Visual Studio Code/notepad or any EDITOR type the code to design a Resume and view in any compatible BROWSER (edge/chrome).

HTML Code:-

```
<!doctype html>
<html>
<head>
<h1><center><ins>CURRICULUM VITAE</ins></center></h1>
<h1>Name:</h1>
<p>Email id:xxxxxx@gmail.com</p>
<p align="right">Mobile No:xxxxxxxxxx</p>
</head>
<hr></hr>
<h1>Objectives:</h1>
<p>To work in an organization where i will be able to contribute to the
organization prohitability<br>
 with my skills and talent and in turn get an oppurtunity to gain exposure
&exprtise to build <br>
a strong carrier</p>
<body>
<h1>Education Qualifications:</h1>
<table border="1">
<tr>
<th>COURSE</th>
<th>UNIVERSITY</th>
<th>INSTITUTE</th>
<th>YEAR OF PASSING</th>
<th>PERCENTAGE</th>
</tr>
<tr>
<td>MCA</td>
<td>SV University</td>
<td>KMM Institute of Postgraduate Studies</td>
<td>2022</td>
<td>77%</td>
</tr>
<tr>
<td>Bsc(Computers)</td>
<td>SV University</td>
<td>Sreenivasa Degree College</td>
<td>2020</td>
<td>92%</td>
</tr>
<tr>
<td>Intermediate</td>
<td>Board Of Intermediate Educatiion</td>
```

```
<td>NARM Government Junior College</td>
<td>2017</td>
<td>88%</td>
</tr>
<tr>
<td>SSC</td>
<td>Board of Secondary Education</td>
<td>ZP High School</td>
<td>2015</td>
<td>87%</td>
</tr>
</table>
<h1>Personality Traits:</h1>
<ul style="list-style-type:disc;">
<li>Highly motivated and eager to learn new things.</li>
<li>Strong motivational and leadership skills.</li>
<li>Ability to produce best result in pressure situation.</li>
<li>Good team player and positive attitude.</li>
<li>Flexibility and adaptability to work in any enivironment.</li>
</ul>
<h1>Skills:</h1>
<ul style="list-style-type:disc;">
<li>Java Basics,SQL.</li>
<li>Ms Word, Ms Excel, Ms Power point.</li>
</ul>
<h1>Strengths:</h1>
<ol type="i">
<li>Positive Attitude.</li>
<li>Work under pressure.</li>
<li>Im mingle with every one.</li>
</ol>
<h1>Hobbies</h1>
<ol type="i">
<li>Listening songs.</li>
<li>Playing games.</li>
<li>Gardening.</li>
</ol>
<h1>Personal Details:</h1>
<p>Father's Name    : xxxxxxxxx.</p>
<p>Date of Birth    : 27/08/2000.</p>
<p>Nationality      : Indian.</p>
<p>Languages known  : English, Hindi, Telugu.</p>
<h1>Declaration:</h1>
<p>I do here by declare that all the furnished statements ae correct and
complete to the best of <br>
 my knowledge and belief.</p>
<p>Place:Tirupati.</p>
<p>Date:23/02/2022.</p>
```

```
<p align="right">Signature:xxxxx </p>
</body>
</html>
```

OUTPUT : -

CURRICULUM VITAE

Name:

Email id:xxxxxx@gmail.com

Mobile No:xxxxxxxxxx

Objectives:

To work in an organization where i will be able to contribute to the organization prohitability with my skills and talent and in turn get an oppurtunity to gain exposure &exprtise to build a strong carrier

Education Qualifications:

COURSE	UNIVERSITY	INSTITUTE	YEAR OF PASSING	PERCENTAGE
MCA	SV University	KMM Institute of Postgraduate Studies	2022	77%
Bsc(Computers)	SV University	Sreenivasa Degree College	2020	92%
Intermediate	Board Of Intermediate Education	NARM Government Junior College	2017	88%
SSC	Board of Secondary Education	ZP High School	2015	87%

Personality Traits:

- Highly motivated and eager to learn new things.
- Strong motivational and leadership skills.
- Ability to produce best result in pressure situation.
- Good team player and positive attitude.
- Flexibility and adaptability to work in any enivironment.

Skills:

2. Design an online HTML Registration form using HTML-5 form tags.

Aim: To Design and view candidate registration form in browser using HTML-5 form elements.

Description:

Forms are required to take input from the user who visits the website. This form is used basically for the registration process, logging into your profile on a website or to create your profile on a website, etc ….Now the form will take input from the form and post that data in backend applications (like PHP). So the backend application will process the data which is received by them

HTML form is created using <FORM> tag.
Syntax:
<form name/id=" " action="url" method="post/get"> Form Content… </form>
Attributes: There are many attributes that are associated with the <form> tag. Some of them are listed below:
ID/Name attribute is used to give name for the Form in HTML-5.
action Attribute: -contains URL of the server which is used to send the data to the server after the submission of the form.
Method: -This is used to upload the data by using two methods that are Get and Post.
Get Method: -It has a limited length of characters of URL. -we should not use get to send sensitive data. -This method is better for non-secure data.
Post Method: -1. It has no size limitations 2. The submission of the form with the method post, cannot be bookmarked and will not visible.

Form Elements like Text, Label, Date, Time, Email, Listbox, radio buttons, submit/reset buttons, text area,URL etc., added to form using **<input> tag.**

Syntax:-
<input name/id=" " type="text/password/radio/textarea/date/email" value="initial value" size=" " character=" "/>

1.<input type="text"> defines a single-line text input field:
Ex:-

```
<form>
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname"><br>
 </form>
```

2.<input type="password"> defines a password field:
3.<input type="submit"> defines a button for submitting form data to a form-handler.
4.<input type="radio"> defines a radio button.
Similarly we have <input type="checkbox">,<input type="color">,<input type="date">,<input type="datetime-local">,<input type="email">,<input type="file">,<input type="hidden">,<input type="image">,<input type="month">

<input type="number">,<input type="password">,<input type="tel">
<input type="text">,<input type="time">,<input type="url">,<input type="week">

Procedure:

1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and view in any compatible BROWSER (edge/chrome).

HTML Code:-

```
<html>
<style type="text/css">
<!--
.style1 {
	font-size: x-large;
	font-weight: bold;
	color: #0000FF;
}
-->
input {border:0;outline:0;}
</style>

<center>
<form>
<div align="center"><span class="style1">Registration Form  </span></div>
<table width="396" border="1" align="center" style="border-collapse:collapse;border-
color:#FF3333">
 <tr>
  <td>Roll No :</td>
  <td><input name="text2" type="text" placeholder="Enter Roll No"></td>
 </tr>
 <tr>
  <td>Name :</td>
  <td><input name="text3" type="text" placeholder="Enter Name" ></td>
 </tr>
 <tr>
  <td>Semisters </td>
  <td><select name="select">
   <option>Select any Semister</option>
   <option>1st Semister</option>
   <option>2nd Semister</option>
   <option>3rd Semister</option>
   <option>4th Semister</option>
  </select></td>
 </tr>
 <tr>
  <td>Courses :</td>
  <td><select name="select2">
   <option>Select any Courses</option>
   <br>
   <br>
   <option>MCA</option>
   <option>MBA</option>
   <option>M.TECH</option>
  </select></td>
 </tr>
 <tr>
  <td>E-mail </td>
  <td><input type="email" name="email"></td>
```

```
 </tr>
 <tr>
  <td>Password </td>
  <td><input type="password" name="password" placeholder="Enter Password"></td>
 </tr>
 <tr>
  <td>Mobile No </td>
  <td><input type="mobileno" name="mobileno" placeholder="Enter Mobile No"></td>
 </tr>
 <tr>
  <td>Select Gender :</td>
  <td><br>
    <input type="radio" name="radio">
    Male
    <input type="radio" name="radio">
    Female
    <input type="radio" name="radio">
    Unknown</td>
 </tr>
 <tr>
  <td>Date of Birth </td>
  <td><input type="date" name="date2"></td>
 </tr>
 <tr>
  <td>Date of Registration </td>
  <td><input type="date" name="date"></td>
 </tr>
 <tr>
  <td>Address</td>
  <td><textarea name="textarea" cols="25" rows="4">Enter your Address</textarea></td>
 </tr>
 <tr>
  <td>District :</td>
  <td><input type="text" name="text4"></td>
 </tr>
 <tr>
  <td>State :</td>
  <td><input type="text" name="text5"></td>
 </tr>
 <tr>
  <td>Pincode :</td>
  <td><input type="text" name="text"></td>
 </tr>
 <tr>
  <td colspan="2"><div align="center">
    <label>
    <input type="submit" name="Submit2" value="Submit">
    </label>
  </div>     <div align="center"></div></td>
  </tr>
</table><h2 style ="color:red;"> </h2></form></html>
```

Registration Form

Roll No :	2316901
Name :	K RAMAKRISHNA
Semisters	1st Semister
Courses :	MCA
E-mail	kmmips@gmail.com
Password	••••••
Mobile No	89090111
Select Gender :	Male Female Unknown
Date of Birth	27-02-2001
Date of Registration	18-05-2022
Address	3rd Lane Bangalore
District :	Chitoor
State :	A.P
Pincode :	517611
	Submit

:

:

Submit

3. Give MCA course information/tourist information using Frames with multiple webpages.

Aim: - Design a website with Frames for giving information MCA course curriculum.

Description:-

HTML allows programmers to divide a single browser display into multiple window sections, where each section can load individual URLs. This concept of HTML providing multiple frames at one browser display is called frameset, and all the frame tags are used within the container tag <frameset>. So the entire separation of HTML pages is possible using the concept of frames.

FrameSet Tag:

This tag defines a specific window or frame inside the <frameset> tag. Every <frame> within the <frameset> tag may use attributes for different purposes like border, resizing capability, include scrolling, etc. The primary use of these frames was to display a menu in parts of the page with content in one part of the page. Multiple HTML pages can be viewed in a browser window using this tag.

Syntax:

```
<frameset row=" "  or  Cols= " " attributes…>
<frame name/id=" " src="url" > framelink name </frame>
<frame name/id=" " src="url" > framelink name </frame>
…..
…..
</frameset>
```

Note: - rows is used to split page horizontally, whereas **cols** is used to split page vertically.

Example:-

```
<frameset cols="20%,*" frameborder=" " noresize>
   <frame src="Ol.html"> 1st FRAME
   <frame src="marquee.html"> 2nd FRAME
</frameset>
```

HTML <iframe> Tag

The <iframe> tag specifies an inline frame. An inline frame is used to embed another document within the current HTML document.

Example:-

```
<iframe src="/default.asp" width="100%" height="300" style="border:1px solid black;">
</iframe>
```

Procedure:

1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and view in any compatible BROWSER (edge/chrome).

HTML Code:-

Mainframe.html

```
<!DOCTYPE html>
<html>
<head>
<title>COURSE INFO</title>
</head>
<frameset rows="20%,*" frameborder="no" border="1" framespacing="0">
  <frame src="topframe.html" name="headFrame" scrolling="No"
noresize="noresize"  title="topFrame" />
  <frameset cols="20%,*" frameborder="no" border="0" framespacing="0">
    <frame src="LEFT-FRAME.html" name="leftFrame" scrolling="No"
noresize="noresize"  />
    <frame src="CENTER-PAGE.html" name="rightFrame"  title="mainFrame" />
  </frameset>
</frameset>
</html>
```

LeftFrame.html

```
<!DOCTYPE html>
<html>
<head>

<title>MCA SEMESTER-I</title>
</head>

<body>
<p style="color:rgb(227, 35, 35)"><strong>COURSE DETAILS</strong>
</p>
<p> </p>
<table width="119" border="0">
  <tr>
    <td width="109" height="48"><a href="sem1.html"
target="rightFrame">SEMESTER-I</a></td>
  </tr>
  <tr>
    <td height="65"><a href="sem2.html" target="rightFrame">SEMESTER-
II</a></td>
  </tr>
  <tr>
```

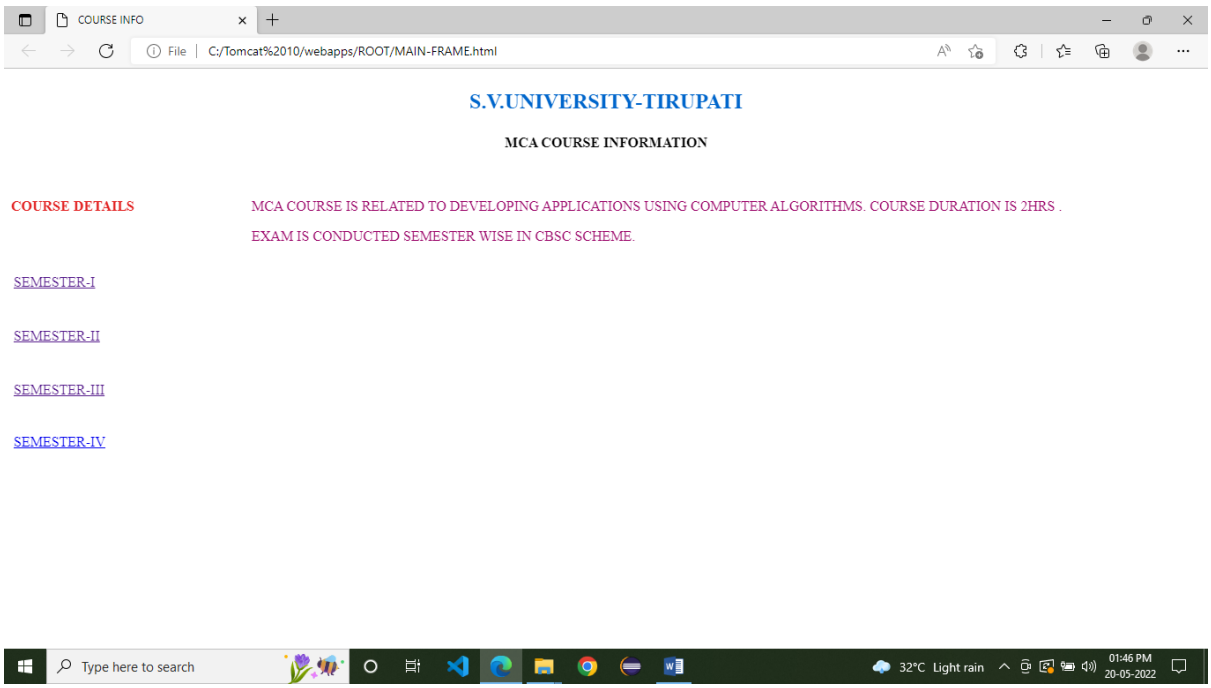
```
    <td height="49"><a href="sem3.html" target="rightFrame">SEMESTER-
III</a></td>
  </tr>
  <tr>
    <td height="62"><a href="sem4.html" target="rightFrame">SEMESTER-
IV</a></td>
  </tr>
</table>
<p> </p>
</body>
</html>
```

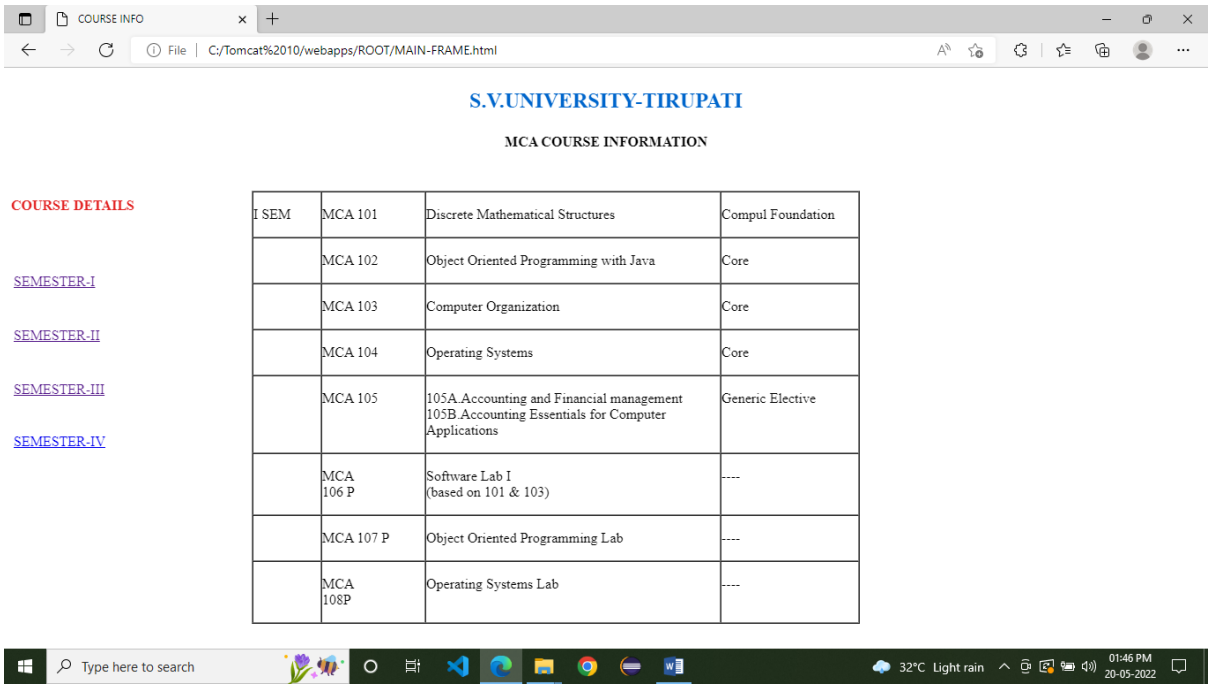
Centerpage.html

```
<!DOCTYPE html>
<html>
<head>

<title>MCA COURSE INFO</title>
<style type="text/css">
<!--
.style1 {color: #990066}
-->
</style>
</head>

<body>
<p class="style1">MCA COURSE IS RELATED TO DEVELOPING APPLICATIONS USING
COMPUTER ALGORITHMS. COURSE DURATION IS 2HRS .</p>
<p class="style1"> EXAM IS CONDUCTED SEMESTER WISE IN CBSC SCHEME. </p>
</body>
</html>

<!DOCTYPE html>
<html>
<head>
<title>4TH SEMESTER</title>
</head>

<body>
<table border="1" cellspacing="0" cellpadding="0" align="left" width="722">
 <tr>
  <td rowspan="3" valign="top"><p>IV<br />
   SEM</p></td>
  <td rowspan="3" valign="top"><p>MCA    401</p></td>
  <td valign="top"><p>401A.Cloud    Computing</p></td>
  <td rowspan="3" valign="top"><p align="center">Generic    Elective</p></td>
 </tr>
 <tr>
```

```
   <td valign="top"><p>401B.    Dot Net Technologies</p></td>
  </tr>
  <tr>
   <td valign="top"><p>401C.    Software Testing</p></td>
  </tr>
  <tr>
   <td valign="top"><p> </p></td>
   <td valign="top"><p>MCA    402</p></td>
   <td valign="top"><p>402A.    Essentials of Data  Science</p></td>
   <td valign="top"><p align="center">Generic    Elective</p></td>
  </tr>
  <tr>
   <td valign="top"> </td>
   <td valign="top">MCA 403 </td>
   <td valign="top">MAJOR PROJECT WORK </td>
   <td valign="top"> </td>
  </tr>
</table>
</body>
</html>
```

OUTPUT:-


COURSE INFO
File | C:/Tomcat%2010/webapps/ROOT/MAIN-FRAME.html
S.V.UNIVERSITY-TIRUPATI
MCA COURSE INFORMATION
COURSE DETAILS
MCA COURSE IS RELATED TO DEVELOPING APPLICATIONS USING COMPUTER ALGORITHMS. COURSE DURATION IS 2HRS . EXAM IS CONDUCTED SEMESTER WISE IN CBSC SCHEME.
SEMESTER-I
SEMESTER-II
SEMESTER-III
SEMESTER-IV
Type here to search
32°C Light rain
01:46 PM
20-05-2022


COURSE INFO
File | C:/Tomcat%2010/webapps/ROOT/MAIN-FRAME.html
S.V.UNIVERSITY-TIRUPATI
MCA COURSE INFORMATION
COURSE DETAILS
SEMESTER-I
SEMESTER-II
SEMESTER-III
SEMESTER-IV
I SEM | MCA 101 | Discrete Mathematical Structures | Compul Foundation
MCA 102 | Object Oriented Programming with Java | Core
MCA 103 | Computer Organization | Core
MCA 104 | Operating Systems | Core
MCA 105 | 105A.Accounting and Financial management 105B.Accounting Essentials for Computer Applications | Generic Elective
MCA 106 P | Software Lab I (based on 101 & 103) | ----
MCA 107 P | Object Oriented Programming Lab | ----
MCA 108P | Operating Systems Lab | ----
Type here to search
32°C Light rain
01:46 PM
20-05-2022

4. Design website layout using CSS3.

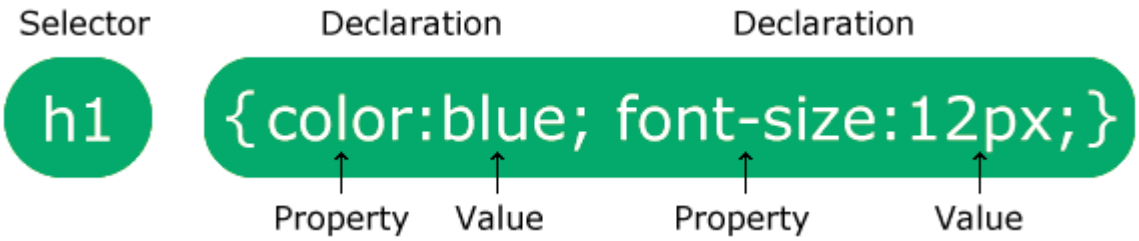
Aim: To design a website layout using CSS3 AND HTML-5 tags and attributes.

Description:

CSS stands for Cascading Style Sheets, describes how HTML elements are to be displayed on screen, paper, or in other media. It can control the layout of multiple web pages all at once. External style sheets are stored in CSS files

A CSS rule consists of a selector and a declaration block.

CSS Syntax



The internal style is defined inside the <style> element, inside the head section.

Example:-

```
<style>
body {
  background-color: linen;
}

h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
```

(EXTERNAL STYLE SHEET)

```
<style>
h1 {
  color: orange;
}
</style>
<link rel="stylesheet" type="text/css" href="mystyle.css">
```

Procedure:

1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and view in any compatible BROWSER (edge/chrome).

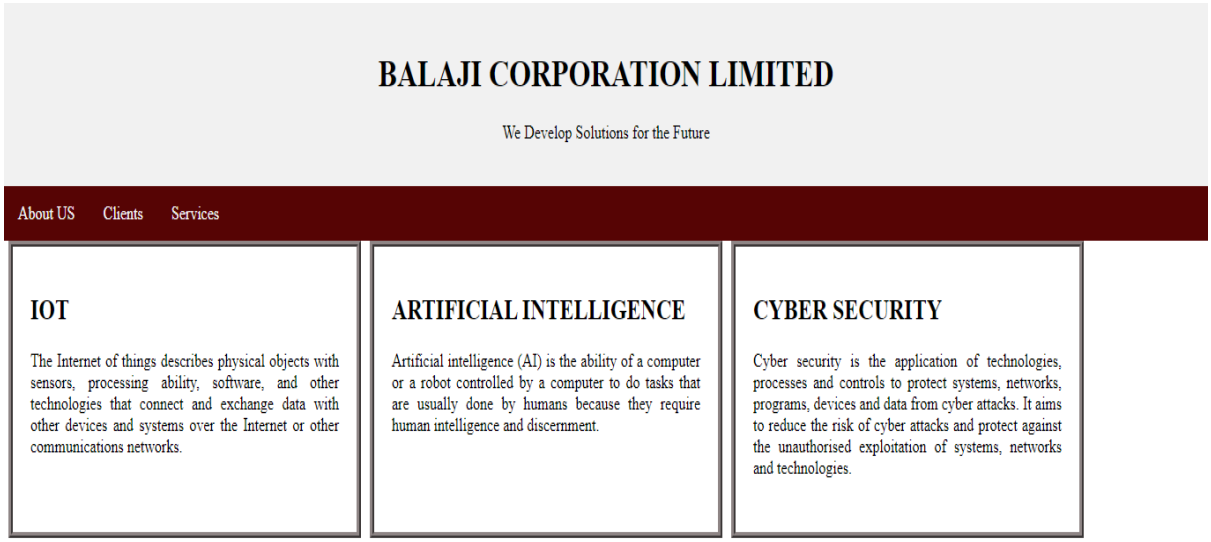
HTML Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>CSS Website Layout</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {
  box-sizing: border-box;
}

body {
  margin: 0;
}

/* Style the header */
.header {
  background-color: #f1f1f1;
  padding: 20px;
  text-align: center;
}

/* Style the top navigation bar */
.topnav {
  overflow: hidden;
  background-color: rgb(86, 4, 4);
}

/* Style the topnav links */
.topnav a {
  float: left;
  display: block;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
}

/* Change color on hover */
.topnav a:hover {
  background-color: #ddd;
  color: black;
```

```
}

/* Clear floats after the columns */
.row:after {
  content: "";
  display: table;
  clear: both;
}

.column-1 {
  width: 400px;
  padding: 20px;
  border: 5px ridge rgb(142, 133, 133);
  float:left;
  margin: 0 5px;
  text-align: justify;
  min-height: 250px;
  max-height: 250px;
}
/* Responsive layout - makes the three columns stack on top of each other
instead of next to each other */
@media screen and (max-width:600px) {
  .column {
    width: 100%;
  }
}
</style>
</head>
<body>

<div class="header">
  <h1>BALAJI CORPORATION LIMITED</h1>
  <p>We Develop Solutions for the Future</p>
</div>

<div class="topnav">
  <a href="#">About US</a>
  <a href="#">Clients</a>
  <a href="#">Services</a>
</div>

<div class="row">
  <div class="column-1">
    <h2>IOT</h2>
    <p>The Internet of things describes physical objects with sensors,
processing ability, software, and other technologies that connect and exchange
data with other devices and systems over the Internet or other communications
networks.</p>
```

```
  </div>

  <div class="column-1">
    <h2>ARTIFICIAL INTELLIGENCE</h2>
    <p>Artificial intelligence (AI) is the ability of a computer or a robot
controlled by a computer to do tasks that are usually done by humans because
they require human intelligence and discernment.</p>
  </div>

  <div class="column-1">
    <h2>CYBER SECURITY</h2>
    <p>Cyber security is the application of technologies, processes and
controls to protect systems, networks, programs, devices and data from cyber
attacks. It aims to reduce the risk of cyber attacks and protect against the
unauthorised exploitation of systems, networks and technologies.</p>
  </div>
</div>

</body>
</html>
```

Output:-


BALAJI CORPORATION LIMITED
We Develop Solutions for the Future
About US
Clients
Services
IOT
The Internet of things describes physical objects with sensors, processing ability, software, and other technologies that connect and exchange data with other devices and systems over the Internet or other communications networks.
ARTIFICIAL INTELLIGENCE
Artificial intelligence (AI) is the ability of a computer or a robot controlled by a computer to do tasks that are usually done by humans because they require human intelligence and discernment.
CYBER SECURITY
Cyber security is the application of technologies, processes and controls to protect systems, networks, programs, devices and data from cyber attacks. It aims to reduce the risk of cyber attacks and protect against the unauthorised exploitation of systems, networks and technologies.

5. JavaScript Program to validate form fields.

Aim :- Write a JavaScript Code to validate empty fields in Form.

Description:-

Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites.

The <script> Tag

In HTML, JavaScript code is inserted between <script> and </script> tags. A JavaScript function is a block of JavaScript code, that can be executed when "called" for.

The if Statement

Use the if statement to specify a block of JavaScript code to be executed if a condition is true.

Syntax:-

```
if (condition) {
  //  block of code to be executed if the condition is true
}
else
{
 //block of code to be executed if the condition is false.
}
```

Functions

A JavaScript function is a block of code designed to perform a particular task. A JavaScript function is executed when "something" invokes it (calls it). A JavaScript function is defined with the function keyword, followed by a **name**, followed by parentheses **()**.

Syntax:-

```
Function function_name(arg1,arg2….)
{
    Block of code
   //return(value) if function returns a value;
}
```

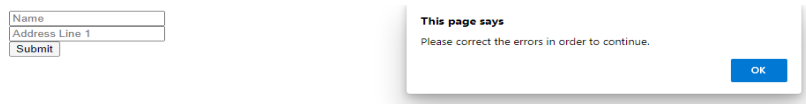
Procedure:

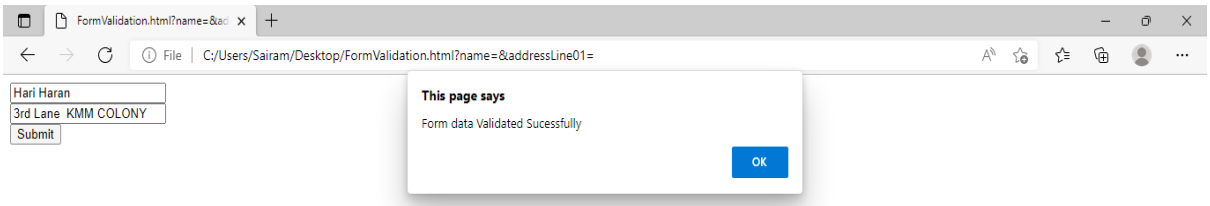
1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and RUN in any compatible BROWSER (edge/chrome).

Program Code:-

```
<html>
<script language="javascript">
function validateForm(form) {

    var nameField = form.name;
    var addressLine01 = form.addressLine01;

    if (isNotEmpty(nameField)) {
        if(isNotEmpty(addressLine01)){
            alert("Form data Validated Sucessfully");
            return true;
        }}
    else
    return false;
}

function isNotEmpty(field) {

    var fieldData = field.value;

    if (fieldData.length == 0 || fieldData == ""){

        field.className = "FieldError"; //Classs to highlight error
        alert("Please correct the errors in order to continue.");
        return false;
    } else {
        field.className = "FieldOk"; //Resets field back to default
        return true; //Submits form
    }
}

</script>



<form name="form1" method="" action="" onsubmit="validateForm(this);">
<input type="text" name="name" placeholder="Name"/><br />
<input type="text" name="addressLine01" placeholder="Address Line 1"/><br />
<input type="submit"/>
</form>
</html>
```

Output:-


Name
Address Line 1
Submit
This page says
Please correct the errors in order to continue.
OK


FormValidation.html?name=&ac
File | C:/Users/Sairam/Desktop/FormValidation.html?name=&addressLine01=
Hari Haran
3rd Lane KMM COLONY
Submit
This page says
Form data Validated Sucessfully
OK


Type here to search
40°C Mostly sunny
05:02 PM
23-04-2022

6. Demonstrate ARRAY functions in JavaScript

Aim: Implement built-in JavaScript Array functions with example.

Description:-

Array is a collection of elements, and it is available as an built in object in Javascript.

The map() method creates a new array populated with the results of calling a provided function on every element in the calling array.

The `find()` method returns the first element in the provided array that satisfies the provided testing function. If no values satisfy the testing function, `undefined` is returned

The findIndex() method returns the index of the first element in the array that satisfies the provided testing function. Otherwise, it returns -1, indicating that no element passed the test.

The filter() method creates a new array with all elements that pass the test implemented by the provided function.

The splice() method changes the contents of an array by removing or replacing existing elements and/or adding new elements in place. To access part of an array without modifying it, see slice().

The reduce() method executes a user-supplied "reducer" callback function on each element of the array, in order, passing in the return value from the calculation on the preceding element. The final result of running the reducer across all elements of the array is a single value.

Algorithm:

1. Begin
2. Create an Array object .. array[1,2,3,80];
3. Apply array built-in function on array object.
4. Result=Arryobject.funtion(array)
5. Print on Console(result)
6. End.

```
// using MAP function
const numbers = [1, 4, 9];
const doubles = numbers.map((num) => num * 2);
console.log(doubles);
//using FINDINDEX function
const array1 = [5, 12, 8, 130, 44];
const isLargeNumber = (element) => element > 13;

console.log(array1.findIndex(isLargeNumber));


//using  FILTER function

let fruits = ['apple', 'banana', 'grapes', 'mango', 'orange']

/**
 * Filter array items based on search criteria (query)
 */
function filterItems(arr, query) {
  return arr.filter(function(el) {
    return el.toLowerCase().indexOf(query.toLowerCase()) !== -1
  })
}

console.log(filterItems(fruits, 'ap'))  // ['apple', 'grapes']
console.log(filterItems(fruits, 'an'))  // ['banana', 'mango', 'orange'

//using  REDUCE  function

const sarray1 = [1, 2, 3, 5];

// 0 + 1 + 2 + 3 + 4
const initialValue = 0;
const sumWithInitial = sarray1.reduce(
  (previousValue, currentValue) => previousValue + currentValue,
  initialValue
);

console.log(sumWithInitial);

// using SLICE FUNCTION

const animals = ['ant', 'bison', 'camel', 'duck', 'elephant'];

console.log(animals.slice(2));
// expected output: Array ["camel", "duck", "elephant"]

console.log(animals.slice(2, 4));
// expected output: Array ["camel", "duck"]
console.log(animals.slice(-2));
// expected output: Array ["duck", "elephant"]
```

```
console.log(animals.slice());
// expected output: Array ["ant", "bison", "camel", "duck", "elephant"]

//  Using  SPLICE function
const months = ['Jan', 'March', 'April', 'June'];
months.splice(1, 0, 'Feb');
// inserts at index 1
console.log(months);
// expected output: Array ["Jan", "Feb", "March", "April", "June"]

months.splice(4, 1, 'May');
// replaces 1 element at index 4
console.log(months);
// expected output: Array ["Jan", "Feb", "March", "April", "May"]
```

OUTPUT:

[2, 8, 18]

3

["apple", "grapes"]

["banana", "mango", "orange"]

11

["camel", "duck", "elephant"]

["camel", "duck"]

["duck", "elephant"]

["ant", "bison", "camel", "duck", "elephant"]

["Jan", "Feb", "March", "April", "June"]

["Jan", "Feb", "March", "April", "May"]

7. Design a JavaScript program using Dialog boxes .

Aim: - Write a JavaScript program using Dialog boxes for toll tax collection with Arrays.

Description:-

JavaScript has three kind of popup boxes: Alert box, Confirm box, and Prompt box.

Alert Box

An alert box is often used if you want to make sure information comes through to the user.When an alert box pops up, the user will have to click "OK" to proceed.

Syntax:- window.alert("sometext")

Confirm Box

A confirm box is often used if you want the user to verify or accept something.

When a confirm box pops up, the user will have to click either "OK" or "Cancel" to proceed.If the user clicks "OK", the box returns true. If the user clicks "Cancel", the box returns false.

Syntax:- window.confirm("sometext");

Prompt Box

A prompt box is often used if you want the user to input a value before entering a page.

When a prompt box pops up, the user will have to click either "OK" or "Cancel" to proceed after entering an input value.If the user clicks "OK" the box returns the input value. If the user clicks "Cancel" the box returns null.

Syntax:- window.prompt("sometext","defaultText");

An array is a special variable, which can hold more than one value.

Creating an Array

Using an array literal is the easiest way to create a JavaScript Array.

Syntax: array_name = [item1, item2, ...];

Using the JavaScript Keyword **new :** arrayname = new Array(val1,val2…);

cars = new Array("Saab", "Volvo", "BMW");

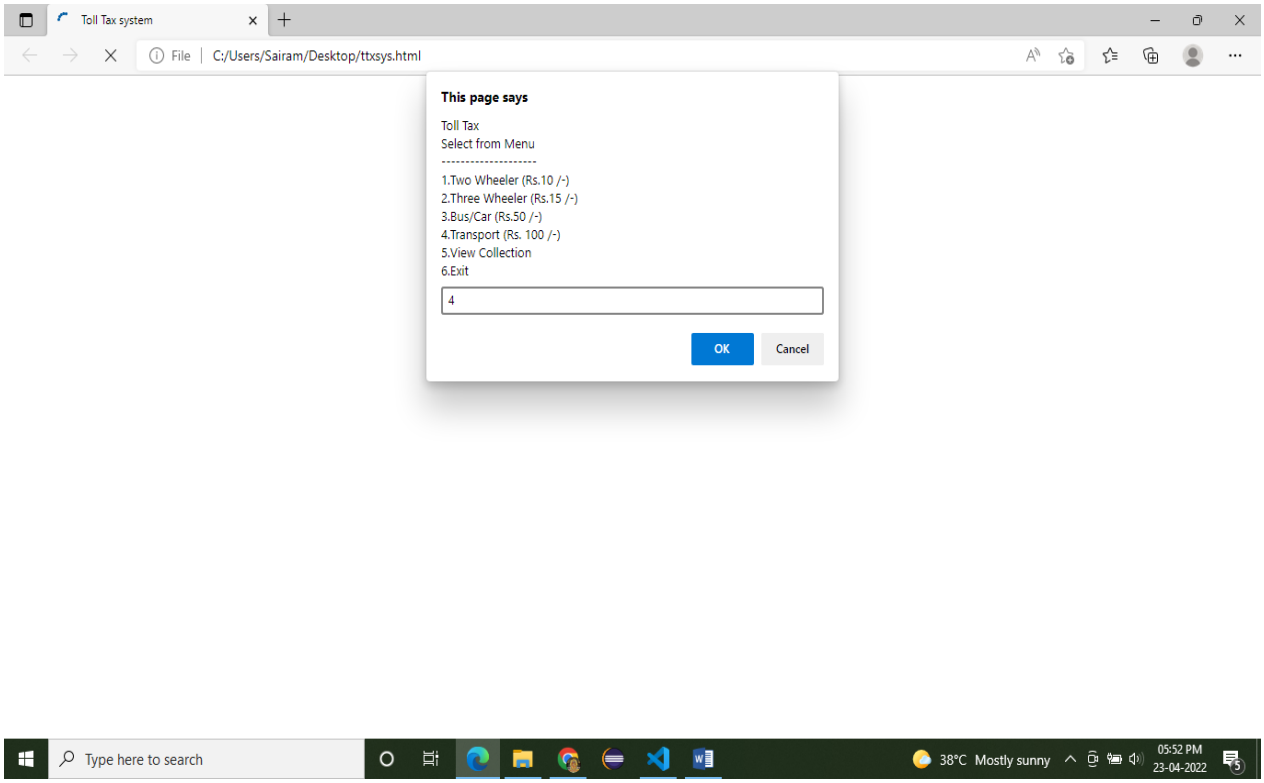
Procedure:

1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and RUN in any compatible BROWSER (edge/chrome).

Program Code:

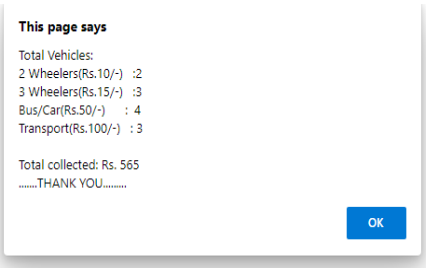
```
<html>
<title>Toll Tax system</title>
<script lang="javascript">

var menu="Toll Tax"+"\n"+"Select from Menu"+"\n"+"--------------------\n";
menu=menu+"1.Two Wheeler (Rs.10 /-)"+"\n"+"2.Three Wheeler (Rs.15 /-
)"+"\n"+"3.Bus/Car (Rs.50 /-) "+"\n"+"4.Transport (Rs. 100 /-) "+"\n"+"5.View
Collection"+"\n"+"6.Exit";
var option=0;
var tot=0;
var amount=new Array(0,0,0,0,0);
var message;
while(option!=6){
var option=parseInt(prompt(menu,"0"));
switch(option){
case 1 : amount[0]++; break;
case 2 : amount[1]++; break;
case 3 : amount[2]++; break;
case 4 : amount[3]++; break;
case 5 :
          tot=tot+amount[0]*10+amount[1]*15 + amount[2]*50+amount[3]*100;
          message="Total Vehicles:\n" + "2 Wheelers(Rs.10/-)   :" +amount[0]+
"\n";
          message=message+"3 Wheelers(Rs.15/-)   :" +amount[1]+ "\n";
          message=message+"Bus/Car(Rs.50/-)      :  " +amount[2]+ "\n";
          message=message+"Transport(Rs.100/-)   : " +amount[3]+ "\n";
          alert(message+"\n"+"Total collected: Rs. "+tot);
          break;
}

}
alert(message+"\n"+"Total collected: Rs. "+tot +"\n"+ ".......THANK
YOU.........");


    </script>
    </html>
```

OUTPUT:-


Toll Tax system
File | C:/Users/Sairam/Desktop/ttxsys.html
This page says
Toll Tax
Select from Menu

1.Two Wheeler (Rs.10 /-)
2.Three Wheeler (Rs.15 /-)
3.Bus/Car (Rs.50 /-)
4.Transport (Rs. 100 /-)
5.View Collection
6.Exit
4
OK
Cancel

Type here to search
38°C Mostly sunny
05:52 PM
23-04-2022


This page says
Total Vehicles:
2 Wheelers(Rs.10/-) :2
3 Wheelers(Rs.15/-) :3
Bus/Car(Rs.50/-) : 4
Transport(Rs.100/-) : 3
Total collected: Rs. 565
.....THANK YOU.....
OK

8. Demonstrate JQUERY Events.

Aim: - Design an application in JQUERY to demonstrate Fade-in,Fade-out,Slide-In/Slide-out Events.

Description:-

JQuery is a lightweight, "write less, do more", JavaScript library.The purpose of jQuery is to make it much easier to use JavaScript on your website.jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

jQuery Syntax

The jQuery syntax is tailor-made for **selecting** HTML elements and performing some **action** on the element(s).

Basic syntax is: **$(*selector*).*action*()**

- A $ sign to define/access jQuery
- A (*selector*) to "query (or find)" HTML elements
- A jQuery *action*() to be performed on the element(s)

jQuery Effects - Sliding

With jQuery you can create a sliding effect on elements.

jQuery has the following slide methods:

- slideDown()
- slideUp()
- slideToggle()

jQuery slideDown() Method

The jQuery slideDown() method is used to slide down an element.

Syntax: $(selector).slideDown(speed,callback);

jQuery Fading Methods

With jQuery you can fade an element in and out of visibility.

jQuery has the following fade methods:

fadeIn()

fadeOut()

fadeToggle()

Procedure:

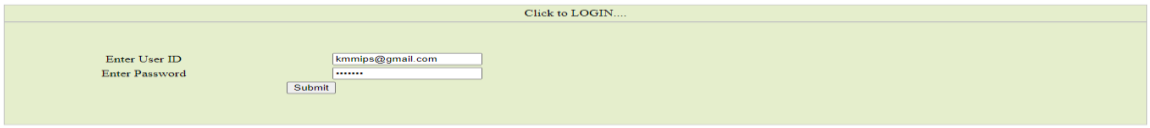
1. Use Visual Studio Code/notepad or any EDITOR type the code to design a and RUN in any compatible BROWSER (edge/chrome).
2. Download Jquery Library, jquery-3.6.0.min.js and copy to folder where your program is to be viewed in browser.

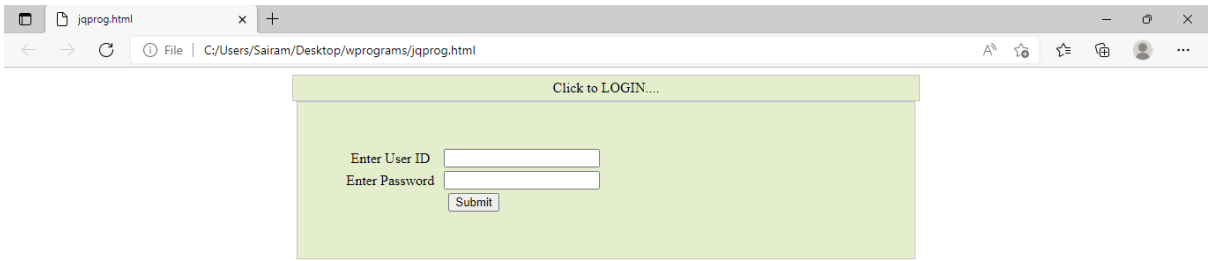
Program Code:-

```
<!DOCTYPE html>
<html>
<head>
<script src="jquery-3.6.0.min.js"></script>
<script>
$(document).ready(function(){
  $("#flip").click(function(){
    $("#panel").slideToggle("slow");
  });
});
</script>
<style>
#panel, #flip {
  width: 700px;
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px #c3c3c3;
}

#panel {
  width: 600px;
  padding: 50px;
  display: none;
}
</style>
</head>
<body>
 <center>
<div id="flip">Click to LOGIN....</div>
<div id="panel"><table border="0" width="50%"><tr><td>Enter User
ID</td><td><input type="text" id="userid"></td></tr><tr><td>Enter
Password</td><td><input type="password" id="userid"></td></tr><tr><td
colspan="2"><input type="submit"></td></tr> </table></div>
</center>
</body>
</html>
```

OUTPUT:-

Click to LOGIN....


Click to LOGIN....
Enter User ID
Enter Password
kmmips@gmail.com
Submit


jqprog.html
File | C:/Users/Sairam/Desktop/wprograms/jqprog.html
Click to LOGIN....
Enter User ID
Enter Password
Submit


Type here to search
38°C Mostly sunny
06:10 PM
23-04-2022

9. Program to demonstrate using AJAX WITH PHP

Aim:- Write Javascript code using AJAX to call PHP code to convert lower case letters into

Description:-

AJAX = Asynchronous JavaScript and XML.

AJAX just uses a combination of:

a)A browser built-in XMLHttpRequest object (to request data from a web server)

b)JavaScript and HTML DOM (to display or use the data)upper case.

Syntax for creating an XMLHttpRequest object:

variable = new XMLHttpRequest();

Method for calling PHP script given in URL:

open(method,url,async,user,psw) Specifies the request

method: the request type GET or POST
url: the file location
async: true (asynchronous) or false (synchronous)
user: optional user name
psw: optional password

Procedure:

1. An event occurs in a web page (the page is loaded, a button is clicked)

2. An XMLHttpRequest object is created by JavaScript

3. The XMLHttpRequest object sends a request to a web server containg **php file.**

4. The server processes the request

5. The server sends a response back to the web page

6. The response is read by JavaScript

7. Proper action (like page update) is performed by JavaScript

Program:

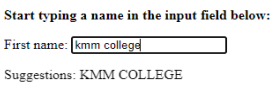
```
<html>
<head>
<script>
function showHint(str) {
if (str.length == 0) {
document.getElementById("txtHint").innerHTML = "";
return;
} else {
var xmlhttp = new XMLHttpRequest();
xmlhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
document.getElementById("txtHint").innerHTML = this.responseText;
}
};
xmlhttp.open("GET", "toupper.php?q=" + str, true);
xmlhttp.send();
}
}
</script>
</head>
<body>
<p><b>Start typing a name in the input field below:</b></p>
<form action="">
<label for="fname">First name:</label>
<input type="text" id="fname" name="fname" onkeyup="showHint(this.value)">
</form>
<p>Suggestions: <span id="txtHint"></span></p>
</body>
```

```
</html>
```

Php code called be AJAX object(toupper.php)

```
<?php
// get the q parameter from URL
$q = $_REQUEST["q"];
$hint = "";
// lookup all hints from array if $q is different from ""
if ($q !== "") {
  $q = strtoupper($q);
  $hint.=$q;
}
// Output "no suggestion" if no hint was found or output correct values
echo $hint === "" ? "no suggestion" : $hint;
?>
```

OUTPUT:-



10. Form Processing with PHP.

Aim: Design form in HTML and send data to PHP code running in XAMP server and display in format .

Description:

When the user fills out the form above and clicks the submit button, the form data is sent for processing to a PHP file named in action attribute of FORM tag. The form data is sent with the HTTP POST method.

<Form name=”formname” method=”post” action=”URL of PHP code”>

<input elements>

….

….

</form>

PHP code is deployed in XAMP web server, and its URL is given as http://localhost:8087/register.php

Php will receive data using $_POST[“field name”] associative array for POST method and

$_GET[“FIELDNAME”] for GET method.

Algorithm:

1.Begin

2. Receive field values from HTML form using $_POST[ ] associate array.

3. For all Fields in $_POST[] , display data in Table format.

4. end.

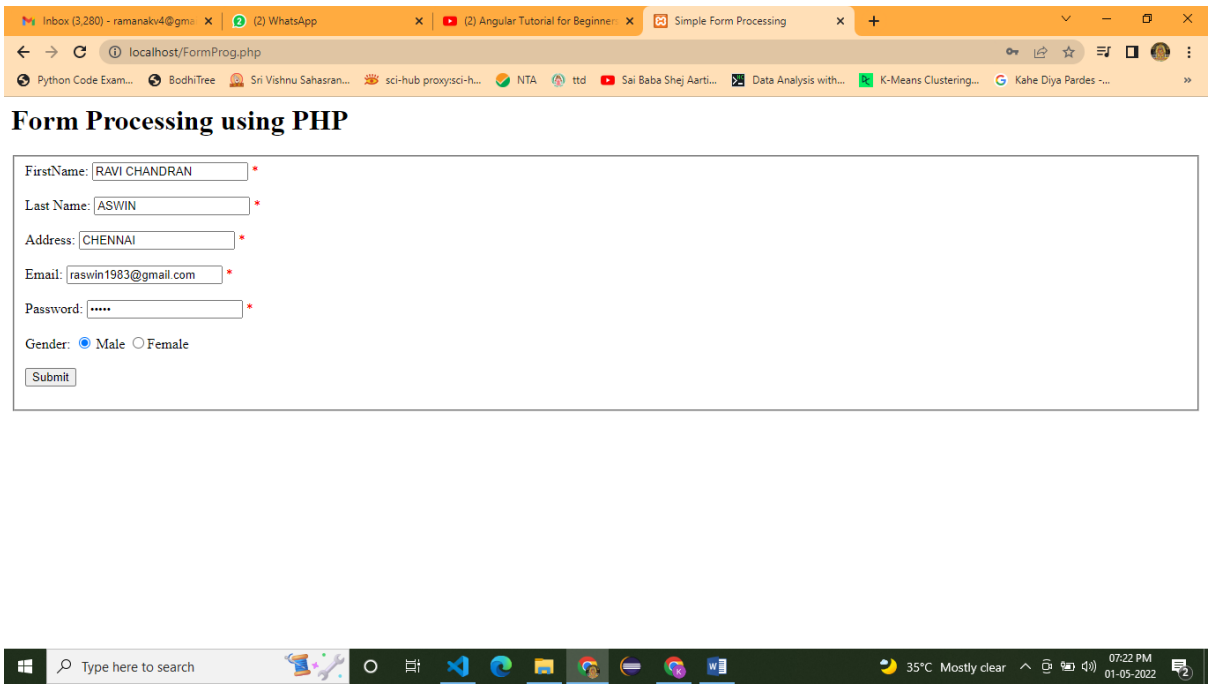
PROGRAM:-

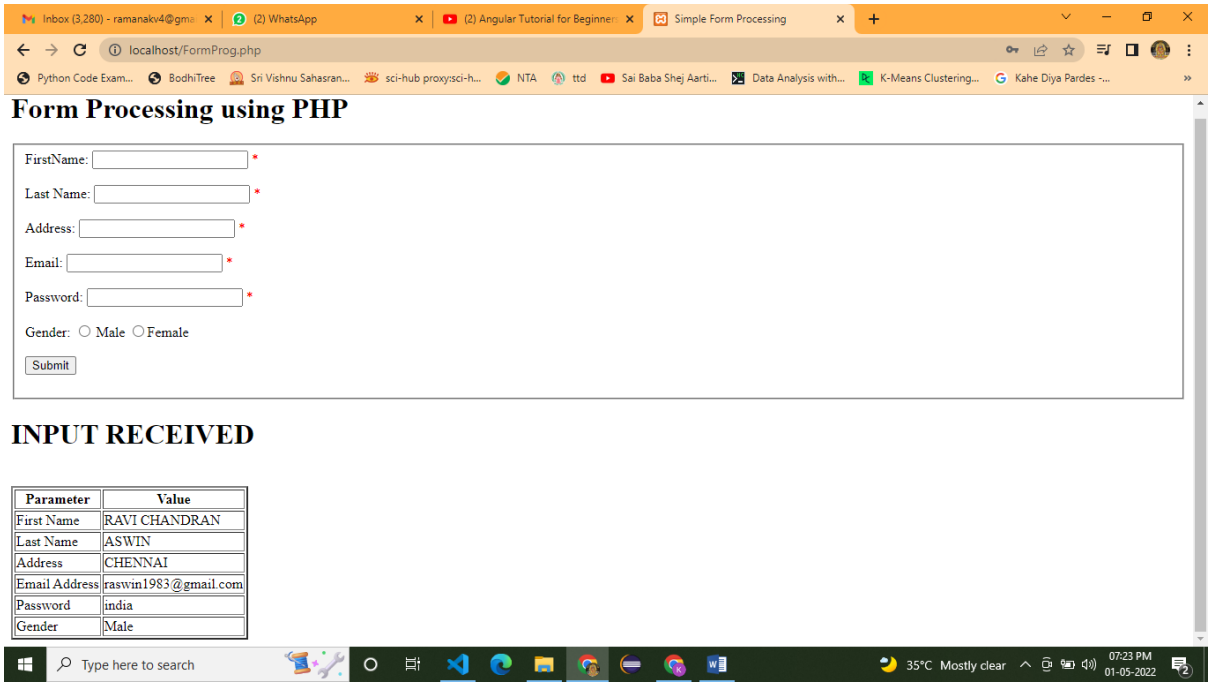
```
<?php
if (isset($_POST['submit']))
{
   if ((!isset($_POST['firstname'])) || (!isset($_POST['lastname'])) ||
      (!isset($_POST['address'])) || (!isset($_POST['emailaddress'])) ||
      (!isset($_POST['password'])) || (!isset($_POST['gender'])))
   {
      $error = "*" . "Please fill all the required fields";
   }
   else
   {
      $firstname = $_POST['firstname'];
      $lastname = $_POST['lastname'];
      $address = $_POST['address'];
      $emailaddress = $_POST['emailaddress'];
      $password = $_POST['password'];
      $gender = $_POST['gender'];
   }
}
?>
<html>

<head>
   <title>Simple Form Processing</title>
</head>

<body>
   <h1>Form Processing using PHP</h1>
   <fieldset>
      <form id="form1" method="post" action="FormProg.php">
         <?php
            if (isset($_POST['submit']))
            {
               if (isset($error))
               {
                  echo "<p style='color:red;'>"
                  . $error . "</p>";
               }
            }
            ?>

            FirstName:
            <input type="text" name="firstname"/>
             <span style="color:red;">*</span>
            <br>
            <br>
            Last Name:
            <input type="text" name="lastname"/>
              <span style="color:red;">*</span>
            <br>
```

```
        <br>
        Address:
        <input type="text" name="address"/>
         <span style="color:red;">*</span>
        <br>
        <br>
        Email:
        <input type="email" name="emailaddress"/>
         <span style="color:red;">*</span>
        <br>
        <br>
        Password:
        <input type="password" name="password"/>
          <span style="color:red;">*</span>
        <br>
        <br>
        Gender:
        <input type="radio"
             value="Male"
             name="gender"> Male
        <input type="radio"
             value="Female"
             name="gender">Female
        <br>
        <br>
        <input type="submit" value="Submit" name="submit" />
   </form>
</fieldset>
<?php
  if(isset($_POST['submit']))
  {
    if(!isset($error))
     {
          echo"<h1>INPUT RECEIVED</h1><br>";
          echo "<table border='2'>";
          echo "<thead>";
          echo "<th>Parameter</th>";
          echo "<th>Value</th>";
          echo "</thead>";
          echo "<tr>";
          echo "<td>First Name</td>";
          echo "<td>".$firstname."</td>";
          echo "</tr>";
          echo "<tr>";
          echo "<td>Last Name</td>";
          echo "<td>".$lastname."</td>";
          echo "</tr>";
          echo "<tr>";
          echo "<td>Address</td>";
          echo "<td>".$address."</td>";
          echo "</tr>";
```

```
            echo "<tr>";
            echo "<td>Email Address</td>";
            echo "<td>" .$emailaddress."</td>";
            echo "</tr>";
            echo "<tr>";
            echo "<td>Password</td>";
            echo "<td>".$password."</td>";
            echo "</tr>";
            echo "<tr>";
            echo "<td>Gender</td>";
            echo "<td>".$gender."</td>";
            echo "</tr>";
            echo "</table>";
    }    }
?>
```

OUTPUT:-


Simple Form Processing
localhost/FormProg.php
Form Processing using PHP
FirstName: RAVI CHANDRAN *
Last Name: ASWIN *
Address: CHENNAI *
Email: raswin1983@gmail.com *
Password: *****
Gender: Male Female
Submit
Type here to search
35°C Mostly clear
07:22 PM
01-05-2022


Simple Form Processing
localhost/FormProg.php
Form Processing using PHP
FirstName: *
Last Name: *
Address: *
Email: *
Password: *
Gender: Male Female
Submit
INPUT RECEIVED
Parameter Value
First Name RAVI CHANDRAN
Last Name ASWIN
Address CHENNAI
Email Address raswin1983@gmail.com
Password india
Gender Male
Type here to search
35°C Mostly clear
07:23 PM
01-05-2022

11. Fetching data from MYSQL database using PHP

Aim: - Write a PHP code to access Marks list for given Hall Ticket number.

Description:
PHP uses MySQLi library to connect to MYSQL database and fetch data.

PHP mysqli_connect() function is used to connect with MySQL database. It returns resource if connection is established or null.

PHP mysqli_close() function is used to disconnect with MySQL database. It returns true if connection is closed or false.

MySQLi functions used in select query.

mysqli_query($conn, $sql); -- executes SQL query with connection object.
mysqli_num_rows(mysqli_result $result): returns number of rows.
mysqli_fetch_assoc(mysqli_result $result): returns row as an associative array. Each key of the array represents the column name of the table. It return NULL if there are no more rows.

Procedure:

1. Creation of Database
   Mysql> create database CollegeDB;
2. Open Database
   Mysql> use CollegeDB;
3. Creation of Table
   Mysql>create table student_marks(rno numeric , stname varchar(20),
   Sub1 numeric ,sub2 numeric ,sub3 numeric , sub4 numeric,sub5 numeric,tot numeric, result varchar(8) primarykey (rno));
4. Insert data into table
   Mysql>insert into student_marks(231010,'Tharun K',60,70,90,70,60,67,null,null);
5. In PHP code ,
   a)connect to database by using mysqli_connect();
   b)fetch row from table using mysqli_Query();
   c) view data in table format
   d)close connection mysqli_close();

Program Code:

```
<html>
<style type="text/css">
<!--
.style1 {
	font-size: x-large;
	font-weight: bold;
	color: #0000FF;
}
-->
input {border:0;outline:0;}
</style>

<center>
<form  action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post">
<div align="center"><span class="style1">View Result  </span></div>
<table width="396" border="1" align="center" style="border-collapse:collapse;border-
color:#FF3333">
  <tr>
    <td>Roll No :</td>
    <td><input name="rno" type="text" placeholder="Enter Roll No"></td>
  </tr>
     <td colspan="2"><div align="center">
     <label>
     <input type="submit" name="Submit" value="Submit">
     </label>
    </div>     <div align="center"></div></td>
    </tr>
</table>
<h2 style ="color:red;"> </h2>
</form>
</html>


<?php
if(isset($_POST['Submit']))
{

$conn = mysqli_connect("localhost:3306","root","admin2k","collegedb");

if(! $conn )
{
  die('Could not connect: ' . mysqli_error());
}
$regno=$_POST['rno'];


$sql="Select * from student_marks where rno=".$regno;
```

```
$resultset=mysqli_query($conn, $sql);

if(mysqli_num_rows($resultset)){
 echo "<table border='1' width='50%'>";

 while($row = mysqli_fetch_assoc($resultset)){
   $tot=$row['sub1']+$row['sub2']+$row['sub3']+$row['sub4']+$row['sub5']+$row['sub6'];
   if($row['sub1']<40 or $row['sub2']<40 or $row['sub3']<40 or $row['sub4']<40 or $row['sub5']<40
or $row['sub6']<40)
   $res="Fail";
   else
   $res="Pass";
 echo "<tr>";
   echo "<td>"."Hallticket ID :". "</td>". "<td>". $row['rno'] . "</td>";
           echo "</tr>";

           echo "<tr>";
   echo "<td>"."Student NAME :". "</td>". "<td>". $row['stname'] . "</td>";
           echo "</tr>";

           echo "<tr>";
   echo "<td>"."CO :". "</td>". "<td>". $row['sub1'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."JAVA PROGRAMMING :". "</td>". "<td>". $row['sub2'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."AFM :". "</td>". "<td>". $row['sub3'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."DATA SCIENCE :". "</td>". "<td>". $row['sub4'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."DMS :". "</td>". "<td>". $row['sub5'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."OS :". "</td>". "<td>". $row['sub6'] . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."Total Marks Obtained :". "</td>". "<td>". $tot . "</td>";
           echo "</tr>";

   echo "<tr>";
   echo "<td>"."Result :". "</td>". "<td>". $res . "</td>";
           echo "</tr>";
```

```
 } //end of while
 echo "</table>";
}else{
echo "0 results";
}
mysqli_close($conn);
}
?>
```

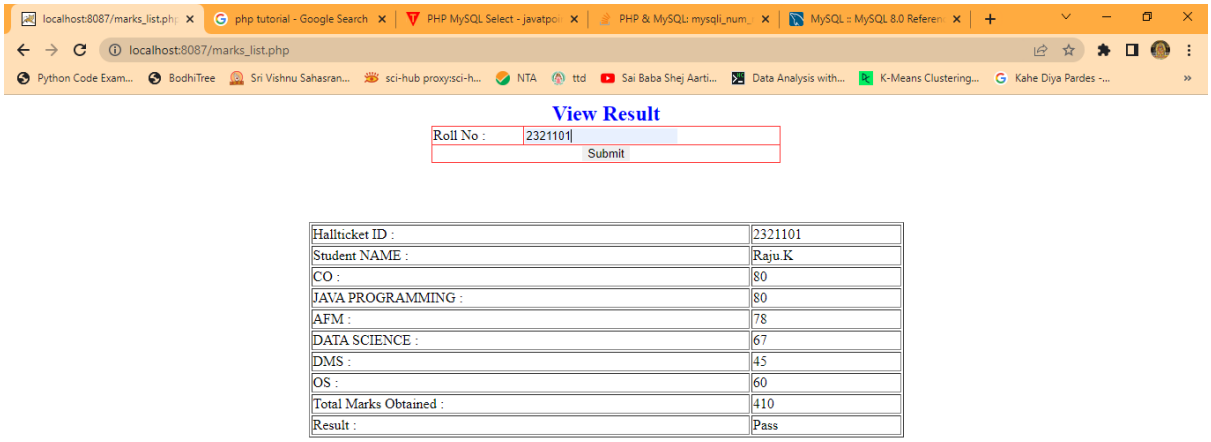
Output:

mysql>create table student_marks(rno numeric(10),stname varchar(20),sub1 numeric,sub3 numeric,sub4 numeric,sub5 numeric,sub6 numeric,tot numeric,result varchar(10), primary key (rno));

mysql> insert into student_marks values(2321101,'Raju.K',80,78,67,45,60,0,null,80);
Query OK, 1 row affected (0.16 sec)

mysql> insert into student_marks values(2321108,'Padmaja.M',70,78,67,55,60,0,null,60);
Query OK, 1 row affected (0.09 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)



Hallticket ID :	2321101
Student NAME :	Raju.K
CO :	80
JAVA PROGRAMMING :	80
AFM :	78
DATA SCIENCE :	67
DMS :	45
OS :	60
Total Marks Obtained :	410
Result :	Pass

12. Design a Login Form

Aim: Write a PHP script code , to perform login for given userID and password and upon success moves to Result page of student.

Description:
PHP uses MySQLi library to connect to MYSQL database and fetch data.

PHP mysqli_connect() function is used to connect with MySQL database. It returns resource if connection is established or null.

PHP mysqli_close() function is used to disconnect with MySQL database. It returns true if connection is closed or false.

MySQLi functions used in select query.

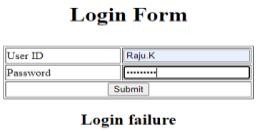
mysqli_query($conn, $sql); -- executes SQL query with connection object.
mysqli_num_rows(mysqli_result $result): returns number of rows.
mysqli_fetch_assoc(mysqli_result $result): returns row as an associative array. Each key of the array represents the column name of the table. It return NULL if there are no more rows.

Procedure:
1. Creation of Database
mysql> create database CollegeDB;
2. Open Database
mysql> use CollegeDB;
3. Creation of Table
mysql>create table student_master(userID varchar(20) primary key,usr_pwd varchar(10))
mysql> insert into student_master values('raju@gmail.com','1234@');
Query OK, 1 row affected (0.09 sec)
mysql> commit;
Query OK, 0 rows affected (0.00 sec)
mysql> insert into student_master values('harish90@gmail.com','1234@');
Query OK, 1 row affected (0.09 sec)
5.In PHP code ,
a)connect to database by using mysqli_connect();
b)fetch row from table using mysqli_Query();
c) view data in table format
d)close connection mysqli_close();

Program Code:

```
<!DOCTYPE html>
<html>
<head>
<title>Login Form</title>
</style>
</head>
<form  method="post">
  <h1><p align="center" class="style1">Login Form </p></h1>
  <table width="350" border="1" align="center">
    <tr>
      <td width="164">User ID </td>
      <td width="170"><input type="text" name="userid"></td>
    </tr>
    <tr>
      <td>Password</td>
      <td><input type="password" name="pwd"></td>
    </tr>
    <tr>
      <td colspan="2"><div align="center">
        <input type="submit" name="Submit" value="Submit">
      </div></td>
    </tr>
  </table>
</form>
</html>

<?php
if(isset($_POST['Submit']))
{
$uid=$_POST["userid"];
$pw=$_POST["pwd"];
$conn = mysqli_connect("localhost:3306","root","admin2k","collegedb");
if(! $conn )
{
  die('Could not connect: ' . mysqli_error());
}
$sq="select * from student_master where userid='".$uid .  "' and  user_pwd='". $pw . "'";

$result=mysqli_query($conn, $sq);
if($row = mysqli_fetch_assoc ($result)){

    // echo "Login Sucessful..... ";
    header("Location: marks_list.php");
}
else
{
  echo "<center><h2>"."Login failure"."</h2></center>";
  }
mysqli_close($conn);
}?>
```

Output:



On Successful Login above Screen is DISPLAYED

13. Design Registration form and store data into Database.

Aim: Write PHP code to store student registration data into MYSQL database.

Description:

PHP uses MySQLi library to connect to MYSQL database and fetch data.
PHP mysqli_connect() function is used to connect with MySQL database. It returns resource if connection is established or null.
PHP mysqli_close() function is used to disconnect with MySQL database. It returns true if connection is closed or false.
MySQLi functions used in select query.
mysqli_query($conn, $sql); -- executes SQL query with connection object.

Procedure:

1. Open Database

mysql> use CollegeDB;

3. Creation of Table with following fields

describe student_master;

```
+----------+---------------+------+-----+---------+-------+
| Field    | Type          | Null | Key | Default | Extra |
+----------+---------------+------+-----+---------+-------+
| userid   | varchar(20)   | NO   | PRI | NULL    |       |
| user_pwd | varchar(10)   | YES  |     | NULL    |       |
| rno      | decimal(10,0) | YES  |     | NULL    |       |
| stname   | varchar(20)   | YES  |     | NULL    |       |
| semester | decimal(2,0)  | YES  |     | NULL    |       |
+----------+---------------+------+-----+---------+-------+
```

5.In PHP code ,

a)connect to database by using mysqli_connect();

b) get form fields into $_POST[] array

c) create sql INSERT query.

d) execute query on table using mysqli_Query();

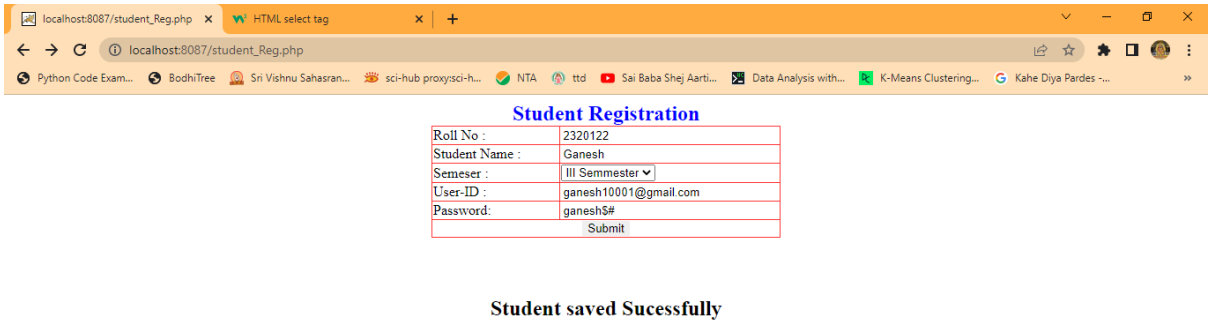
d)close connection mysqli_close();

Program Code:

```
<html>
<style type="text/css">
<!--
.style1 {
	font-size: x-large;
	font-weight: bold;
	color: #0000FF;
}
-->
input {border:0;outline:0;}
</style>
<center>
<form  action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post">
<div align="center"><span class="style1">Student Registration  </span></div>
<table width="396" border="1" align="center" style="border-collapse:collapse;border-
color:#FF3333">
 <tr>
  <td>Roll No :</td>
  <td><input name="rno" type="text" placeholder="Enter Roll No "></td>
 </tr>
 <tr>
  <td>Student Name :</td>
  <td><input name="stname" type="text" placeholder="Enter Student Name "></td>
 </tr>
 <tr>
  <td>Semeser :</td>
  <td><select name="sem">
 <option value="1">I Semester</option>
 <option value="2">II Semester</option>
 <option value="3">III Semmester</option>
 <option value="4">IV Semester</option>
</select></td>
 </tr>
 <tr>
  <td>User-ID :</td>
  <td><input name="uid" type="text" placeholder="Give Mail-id"></td>
 </tr>
 <tr>
  <td>Password:</td>
  <td><input name="pwd" type="text" placeholder="Give Password(10) chars"></td>
 </tr>

    <td colspan="2"><div align="center">
    <label>
    <input type="submit" name="Submit" value="Submit">
    </label>
  </div>     <div align="center"></div></td>
  </tr>
</table>
```

```
<h2 style ="color:red;"> </h2>
</form>
</html>

<?php
if(isset($_POST['Submit']))
{

$conn = mysqli_connect("localhost:3306","root","admin2k","collegedb");

if(! $conn )
{
  die('Could not connect: ' . mysqli_error());
}
$regno=$_POST['rno'];
$sn=$_POST['stname'];
$semester=$_POST['sem'];
$userid=$_POST['uid'];
$pw=$_POST['pwd'];

$sql="insert into student_master values('".$userid."','".$pw;
$sql=$sql."',".$regno.",'".$sn."',".$semester.")";

$resultset=mysqli_query($conn, $sql);
echo "<h2>"."Student saved Sucessfully"."</h2>";

mysqli_close($conn);
}
 ?>
```

Output:


localhost:8087/student_Reg.php
HTML select tag
localhost:8087/student_Reg.php
Python Code Exam...
BodhiTree
Sri Vishnu Sahasran...
sci-hub proxy:sci-h...
NTA
ttd
Sai Baba Shej Aarti...
Data Analysis with...
K-Means Clustering...
Kahe Diya Pardes -...
Student Registration
Roll No :
2320122
Student Name :
Ganesh
Semeser :
III Semmester
User-ID :
ganesh10001@gmail.com
Password:
ganesh$#
Submit
Student saved Sucessfully

14. Design PHP page to Update/Delete data in database.

Aim:- Write PHP code to update product stock/price or delete a product.

Description:

PHP uses MySQLi library to connect to MYSQL database and fetch data.
PHP mysqli_connect() function is used to connect with MySQL database. It returns resource if connection is established or null.
PHP mysqli_close() function is used to disconnect with MySQL database. It returns true if connection is closed or false.
MySQLi functions used in select query.
mysqli_query($conn, $sql); -- executes SQL query with connection object.

Procedure:

1. Open Database

```
mysql> use CollegeDB;
```

3. Creation of Table with following fields

```
mysql> describe product;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| prod_id   | decimal(4,0) | NO   | PRI | NULL    |       |
| prod_name | varchar(20)  | YES  |     | NULL    |       |
| price     | decimal(7,2) | YES  |     | NULL    |       |
| stock     | decimal(3,0) | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
```

5.In PHP code ,

a)connect to database by using mysqli_connect();

b) get Product_id fields into $_POST[] array

c) create SQL DML query for UPDATE / DELETE

d) execute query on table using mysqli_Query();

d)close connection mysqli_close();

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<head>
<title>PRODUCT UPDATION/DELETION</title>
<style type="text/css">
<!--
.style1 {color: #993399}
-->
</style>
</head>
<br>
<center>

<h2 class="style1"> PRODUCT UPDATION FORM </h2>

<form name="form1" method="post" action="<?php echo ($_SERVER["PHP_SELF"]);?>">
  <table width="295" border="1" align="center" style="border-collapse:collapse;border-
color:#FF3333">
    <tr>
      <td>Enter Product ID To Find : </td>
      <td><input type="text" name="prid"></td>
    </tr>
       <tr>
      <td><div align="center">
        <input type="submit" name="Delete" value="Delete">
      </div></td>
      <td><div align="center">
        <input type="submit" name="Update" value="Update">
      </div></td>
    </tr>
  </table>
</form>

</html>

<?php

if ($_SERVER["REQUEST_METHOD"] == "POST")
{
   $productid = $_POST["prid"];

$host = 'localhost:3306';
$user = 'root';
$pass = 'admin2k';
$dbname = 'collegedb';
$conn = mysqli_connect($host, $user, $pass,$dbname);
if(!$conn){
   die('Could not connect: '.mysqli_connect_error());
  }
echo 'Connected successfully<br/>';
```

```
$sq="select * from product where prod_id=".$productid;
if(isset($_POST['Delete']))
{
$retval=mysqli_query($conn, $sq);

if(mysqli_num_rows($retval) > 0){
   echo "<table border='1'>";
   echo "<tr><td>"."PRODUCT NAME"."</td>"."<td>"."PRICE"."</td>"."<td>"."STOCK"."</td></tr>";
 while($row = mysqli_fetch_assoc($retval)){
    echo"<tr>";
    echo "<td>"."{$row['prod_name']} "."</td>";
    echo"<td>"."{$row['price']} "."</td>";
    echo "<td>"."{$row['stock']}"."</td>";
    echo "</tr>";
 } //end of while
 echo "</table>";
 $sq="delete from product where prod_id=".$productid;
 mysqli_query($conn, $sq);
 echo "<br>"."Above Record Deleted sucessfully...";
}else{
echo "0 results";
}
}
if(isset($_POST['Update']))
{
   $pname="";
   $stk=0;
   $pr=0.0;
   $retval=mysqli_query($conn, $sq);
   if(mysqli_num_rows($retval) > 0){

      while($row = mysqli_fetch_assoc($retval)){

         $pname=$row['prod_name'];
         $stk=$row['stock'];
         $pr=$row['price'];

      } //end of while
   }
   echo
   "<html>
   <body>

   <form action='updateproduct.php' method='post'>
   <br>
   <br>
   UPDATE VALUES FOR PRODUCT ID BELOW: $productid<br>
   <input type='hidden' name='prcid' value='$productid'>
   <br>
   Product Name: <input type='text' name='prdname' value='$pname'><br>
```

```
   Price: <input type='text' name='prc' value='$pr'><br>
   Stock: <input type='text' name='stoc' value='$stk'><br>
   <input type ='submit'>
   </form>

   </body>
   </html>";

   } else {
      echo "Not Found";
   }
mysqli_close($conn);
   }
    ?>
```

// updateproduct.php

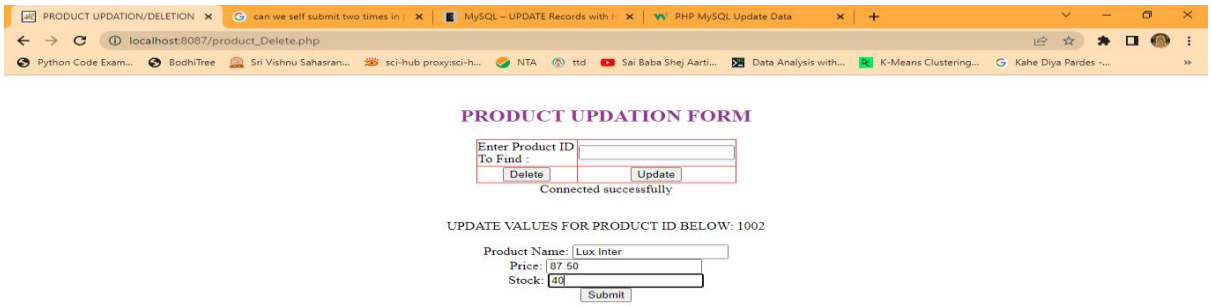
```
<?php
$host = 'localhost:3306';
$user = 'root';
$pass = 'admin2k';
$dbname = 'collegedb';
$conn = mysqli_connect($host, $user, $pass,$dbname);
if(!$conn){
   die('Could not connect: '.mysqli_connect_error());
 }
      $pid=$_POST["prcid"];

      $pn=$_POST["prdname"];
      $pc=$_POST["prc"];
      $stc=$_POST["stoc"];

      $sql =  "update product  set  prod_name='".$pn."',". "price=".$pc .",stock=".$stc ." where
prod_id=".$pid;
      mysqli_query($conn, $sql);
      echo $sql;
      echo "<br>"." Record Updated sucessfully...";
  mysqli_close($conn);

   ?>
```

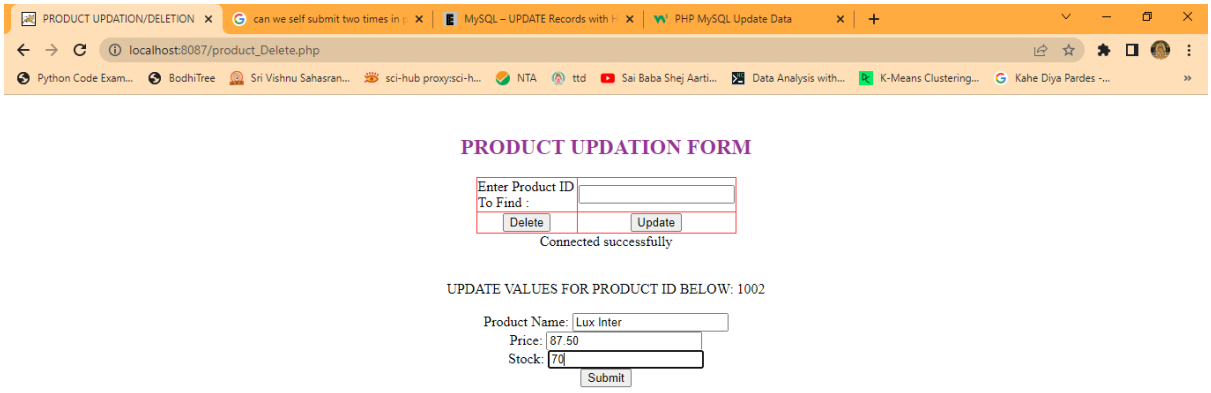
OUTPUT:

mysql> select * from product;

```
+---------+--------------+--------+-------+
| prod_id | prod_name    | price  | stock |
+---------+--------------+--------+-------+
|    1001 | Basmathi     | 170.00 |   115 |
|    1002 | Lux Inter    |  87.50 |    40 |
|    1003 | Arial liquid | 125.00 |    30 |
+---------+--------------+--------+-------+
```

3 rows in set (0.00 sec)

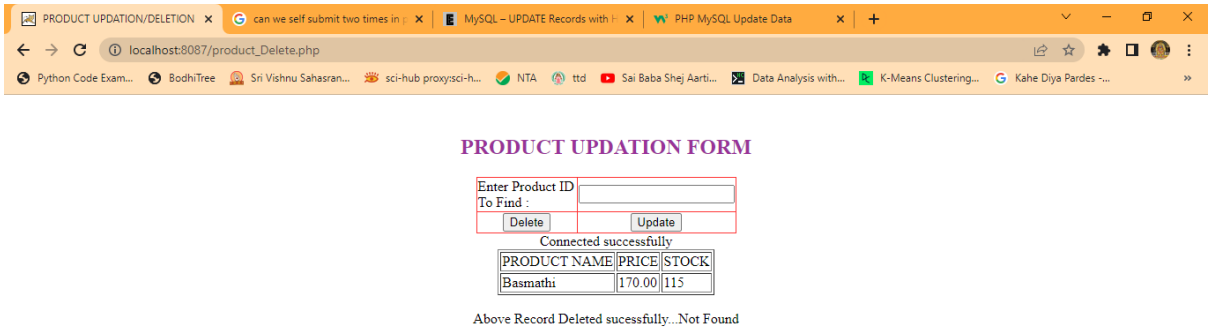




mysql> select * from product;

```
+---------+--------------+--------+-------+
| prod_id | prod_name    | price  | stock |
+---------+--------------+--------+-------+
|    1001 | Basmathi     | 170.00 |   115 |
|    1002 | Lux Inter    |  87.50 |    70 |
|    1003 | Arial liquid | 125.00 |    30 |
+---------+--------------+--------+-------+
```

PRODUCT DELETION




```
mysql> select * from product;
+---------+--------------+--------+-------+
| prod_id | prod_name    | price  | stock |
+---------+--------------+--------+-------+
|    1002 | Lux Inter    |  87.50 |    70 |
|    1003 | Arial liquid | 125.00 |    30 |
+---------+--------------+--------+-------+
```

15. Show Session Tracking with example in JSP.

Aim:- Implement Session Tracking in JSP with TOMCAT server.

Description:-

Session Management is used to recognize the particular user. It is a way to maintain the state (data) of the user about a series of requests from the same user (that is, requests originating from the same browser) across the same period of time. Each time the user requests to the server, the server always treats the request as the new request.

Session Object in JSP

Creating a session object means creating an object for a class that is implementing javax.servlet.HttpSession interface. The session object is also used to transfer the data between multiple form-based applications. When the client sends the request to the server for the first time then the *server creates a session object and now the server creates a unique ID that is associated with this session object.* Then the server will create a cookie with the name JSESSIONID which holds the session object as a value and send it to the client

To create a session object, we have to use the following methods of request object:

HttpSession getSession(true)

HttpSession getSession(false)

getAttribute(String name): It gives the object bound with the specified name in this session.

removeAttribute(String name): It removes the object bound with the specified name from this session.

setAttribute(String name, Object value): It binds an object to this session using the specified name.

setMaxInactiveInterval(int interval): It specifies the time between client requests before the servlet container will invalidate this session.

Algorithm:

1. Begin
2. Create 3 JSP PAGES
3. First page for login, second page select items and final page Session data display.
4. Deploy in webapps of TOMCAT SERVER
5. RUN http://localhost:8087/index1.jsp
6. End.

Program Code:

(index1.jsp)

```
<%@ page isErrorPage="true" %>
<html>
<head>
<title>Session Management</title>
</head>
<body>
    <center><h3> LOGIN TO PURCHASE</h3><br>
<form action="first.jsp" method="post">
Enter your name:    <input type="text" name="name"><br/>
Enter your password:<input type="password" name="password">
<br/>
<input type="submit" name="submit" value="submit">
</form>
</body></html>
```

first.jsp

```
<%

String name = request.getParameter("name");

String password = request.getParameter("password");

if (name.equals("dataflair") && password.equals("admin")) {

session.setAttribute("username", name);

out.print("Welcome "+ "<h3>"+ name + "</h3>"); %>

<%@ include file="items.html" %>

<%

out.print("<a href='index1.jsp'>Check OUT Here </a>");

}

else {

    response.sendRedirect("index1.jsp");

 }

%>
```

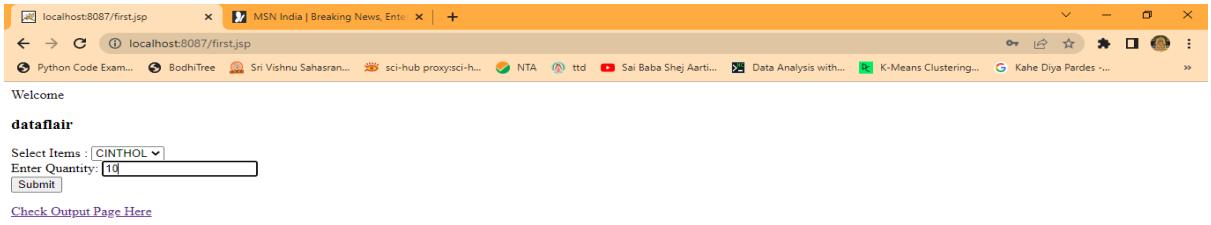
Second.jsp

```
<%  String itname=request.getParameter("items");
      int q=Integer.parseInt(request.getParameter("qty"));
```

```
      out.print("<br>");
     out.println("<h3>"+session.getAttribute("username") +"</h3>"+ "You have
selected " + itname + "  of Quantity "+ q  );
      %>
```

OUTPUT:-

Login details stored in Session



At Final page

LIST OF PROGRAM INDEX OF MCA 309P WEB TECHNOLOGIES LAB

1. Design a Web page containing your details as in Resume to display in your blog.
2. Design an online HTML Registration form using HTML-5 form tags.
3. Give MCA course information/tourist information using Frames with multiple webpages.
4. Design website layout using CSS3.
5. JavaScript Program to validate form fields.
6. Demonstrate ARRAY functions in JavaScript.
7. Design a JavaScript program using Dialog boxes .
8. Demonstrate JQUERY Events.
9. Program to demonstrate using AJAX WITH PHP
10. Form Processing with PHP.
11. Fetching data from MYSQL database using PHP
12. Design a Login Form
13. Design Registration form and store data into Database.
14. Design PHP page to Update/Delete data in database.
15. Show Session Tracking with example in JSP.