FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

'FOCUS ON EXCELLENCE'

WEB PROGRAMMING

LABORATORY RECORD

Name: FARZEENA P A

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: 2021-A Roll No: 57

FEDERAL INSTITUTE OF

SCIENCE AND TECHNOLOGY

(FISAT)™

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Semester : 1 **Roll No: 57**

University Exam.Reg. No: FIT21MCA-2057

CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done and submitted to Kerala Technological University in partial fulfillment for the award of the Master Of Computer Applications is a record of the original research work done by **Ms. FARZEENA P A** in the **WEB PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2020-2021.

Signature of Staff in Charge — Signature of H.O.D

Name: — Name:

Date:

Date of University practical examination ……

Signature of — Signature of

Internal Examiner — External Examiner

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Program 1

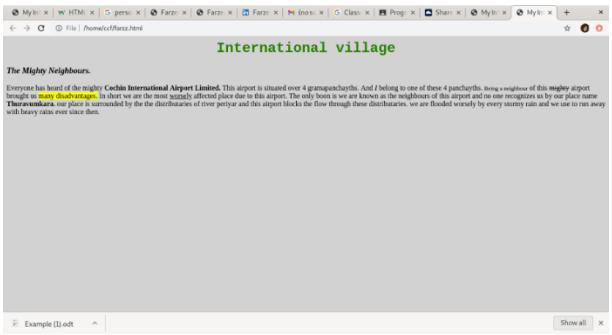
Aim:-

Model a simple HTML file related to your native place to demonstrate the usage of different tags

Source code:-

```
<html>
<head>
<title>My International village</title>
</head>
<body style="background-color: lightgrey;">

<h1 style="color:green;font-family:courier;text-align:center;">International village</h1>
<h3><i> The Mighty Neighbors.</i> </h3>
<p>Everyone has heard of the mighty <b> Cochin International Airport Limited.</b>  This airport is situated over 4 gramapanchayths. And<em> I </em> belong to one of these 4 panchayths. <small>Being a neighbor </small>of this <del> mighty</del> airport brought us <mark>many disadvantages.</mark> In short we are the most <ins>hoarsely</ins> affected place due to this airport. The only boon is we are known as the neighbors of this airport and no one recognizes us by our place name <strong>Thuravumkara.</strong> our place is surrounded by the the distributaries of river periyar and this airport blocks the flow through these distributaries. we are flooded hoarsely by every stormy rain and we use to run away with heavy rains ever since then.</p>

</body>
</html>
```

output:-



Program 2

Aim:-

Create your bio data by using the html tags for hyperlinks, images, table, frame and
fonts. Make it attractive by using the various colour elements. The design
should contain a minimum of 3 hyperlinks

Source code:-

>>page 1

```
<html>
<head>
<title>Farzeena P A</title>
<style>
td, th {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}

tr:nth-child(even) {
```

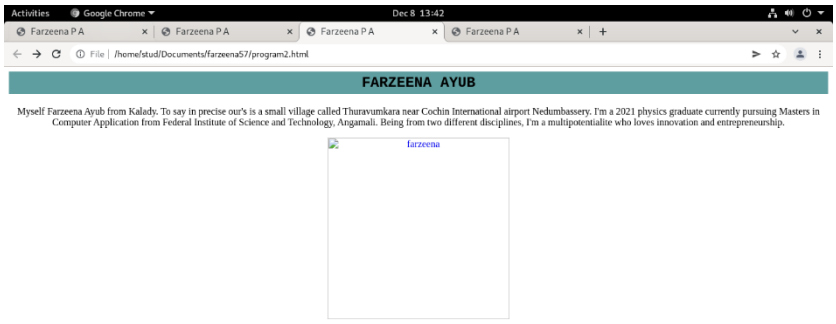
```
  background-color: #dddddd;
}
</style>
</head>
<body>
<h3 style="color: green;font-family:courier;text-align:center;">Graduation
Details</h3>
 <table style="font-family: arial,
 sans-serif;
  border-collapse: collapse;
  width: 100%;">
  <tr>
    <th>institute</th>
    <th>course</th>
    <th>year of passing out</th>
  </tr>
  <tr>
    <td>fisat</td>
    <td>mca</td>
    <td>2023</td>
  </tr>
  <tr>
    <td>mshsc</td>
    <td>bsc physics</td>
    <td>2021</td>
  </tr>
</table>
<div>
<h3 style="color:green;font-family:courier;text-align:center;">skills and
certifications</h3>
<table style="font-family: arial,
 sans-serif;
  border-collapse: collapse;
  width: 100%;">
  <tr>
    <th>course/skill</th>
    <th>institute</th>
  </tr>
  <tr>
    <td>web dev</td>
    <td>internshala</td>
  </tr>
  <tr>
    <td>global health innovations</td>
    <td>university of michigan</td>

  </tr>
</table>
</div>
<div>
```

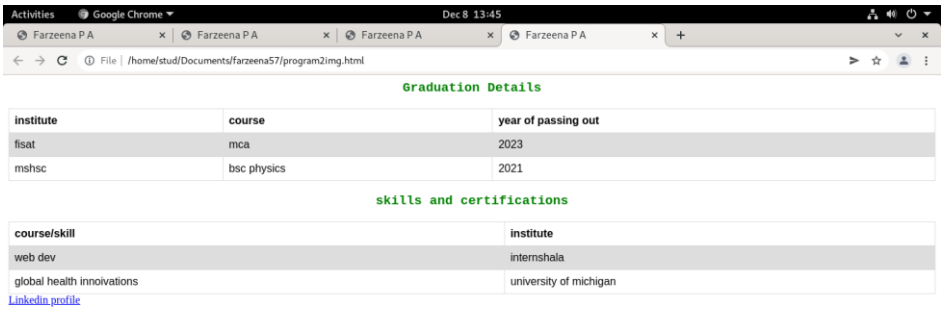
```
<a href="https://www.linkedin.com/in/farzeena-ayub-057b98175/">Linkedin
profile</a>
</div>
</body>
</html>
```

>>page 2

```
<html>
<head>
<title>Farzeena P A</title>
</head>
<body>
<div><h2 style="text-align:center;background-color:cadetblue;font-family:
courier;  padding: 5px;">FARZEENA AYUB </h2></li>
</div>
<div> <p style="text-align:center;  padding:00px;">Myself Farzeena Ayub from
Kalady. To say in precise our's is a small village called Thuravumkara near Cochin
International airport Nedumbassery. I'm a 2021 physics graduate currently pursuing
Masters in Computer Application from Federal Institute of Science and Technology,
Angamali. Being from two different disciplines, I'm a multipotentialite who loves
innovation and entrepreneurship.</p>
</div>
<div style="text-align:center;">
 <a href="file:///home/ccf/farzz%20img.html">
<img src="flower.jpg" alt="farzeena" style="width:300px;height:300px;">
</a> </div>

</body>
</html>
```

output:-





Program 3

Aim:-

Create an application form for MCA course in FISAT.

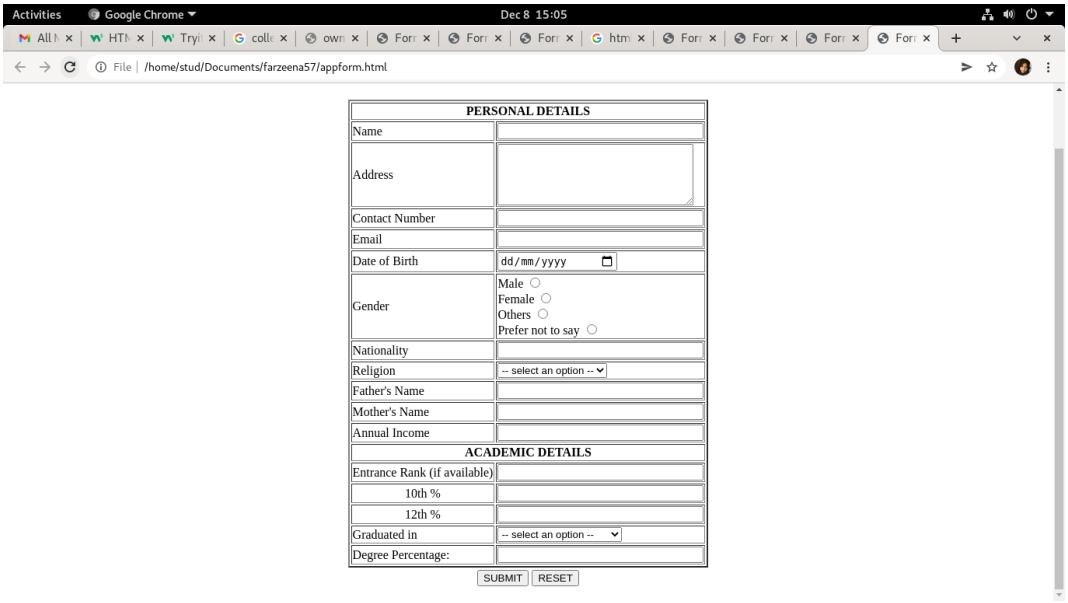
Source code:-

```
<html>
<head>
<title>
Form Creation</title>
<body font="Times new roman" color="black" bgcolor="white">
<h1 align="center">MCA APPLICATION FORM</h1>
</br></br>
<form>
<center>
<table border="2">
<tr>
<th colspan="2">
<b>PERSONAL DETAILS</b>
</th>
</tr>
<tr>
<td>Name</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Address</td>
<td><textarea size=80 rows="5" cols="29"></textarea></td>
```

```
</tr>
<tr>
<td>Contact Number</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Email</td>
<td><input type="email" maxlength="100" size="30" required>
</tr>
<tr>
<td>Date of Birth</td>
<td><input type="date"></td>
</tr>
<tr>
<td>Gender</td>
<td>
Male
<input type="radio"><br>
Female
<input type="radio"><br>
Others
<input type="radio"><br>
Prefer not to say
<input type="radio"><br>
</td>
<tr>
<td>Nationality</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Religion</td>
<td><select name="religion" size="1" required>
        <option disabled selected value> -- select an option -- </option>
                        <option value="Hindu">Hindu</option>
                        <option value="Christian">Christian</option>
                        <option value="Muslim">Muslim</option>
                        <option value="Others">Others</option>
                </select>
</tr>
<tr>
<td>Father's Name</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Mother's Name</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<td>Annual Income</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
```

```
<th colspan="2">
<b>ACADEMIC DETAILS</b>
</th>
<tr>
<td>Entrance Rank (if available)</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td align="center">10th %</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td align="center">12th %</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Graduated in</td>
<td><select name="religion" size="1" required>
        <option disabled selected value> -- select an option -- </option>
                        <option value="BCA">BCA</option>
                        <option value="BTech">BTech</option>
                        <option value="BSc ">BSc Computer Science</option>
                        <option value="Others">Others</option>
                </select>
</tr>
<tr>
<td>Degree Percentage:</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
</table>
<table>
<tr>
<td align="center">
<input type="submit" name="send" value="SUBMIT">
</td>
<td align="center">
<input type="reset" name="clear" value="RESET">
</td>
</tr>
</table>
</body>
</html>
```

Output:-



Program 4

Aim:-

Create a HTML page with different types of frames such as floating frame,
navigation frame & mixed frame.

Source code:-

>floating frame

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>
</head>
<body>
<h1 align="center">Floating Frame</h1>
```

```
<iframe name="float" src="https://www.wikipedia.org/" width=50% height=500
align=left>
</iframe>

</body>
</html>
```

>navigation frame

>>navi.html

```
<html>
<frameset cols ="100,*">
<frame src ="navigation1.html">
<frame src = "framea.html" name="showframe">
<frame src="frameb.html" name="showframe">
</frameset>
</html>
```

>>navigation1.html

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>
</head>
<body>
<a href = "framea.html" target="showframe">frame a</a><br>
<a href = "frameb.html" target="showframe">frame b</a>
</body>
</html>
```

>>framea.html

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>
</head>
<body>
<h1 align="center">Floating Frame</h1>
<p>yertyyb ttttttt  yyyyyyyyyy uuuuuuuuuuuuu</p>
```

```
</body>
</html>
```

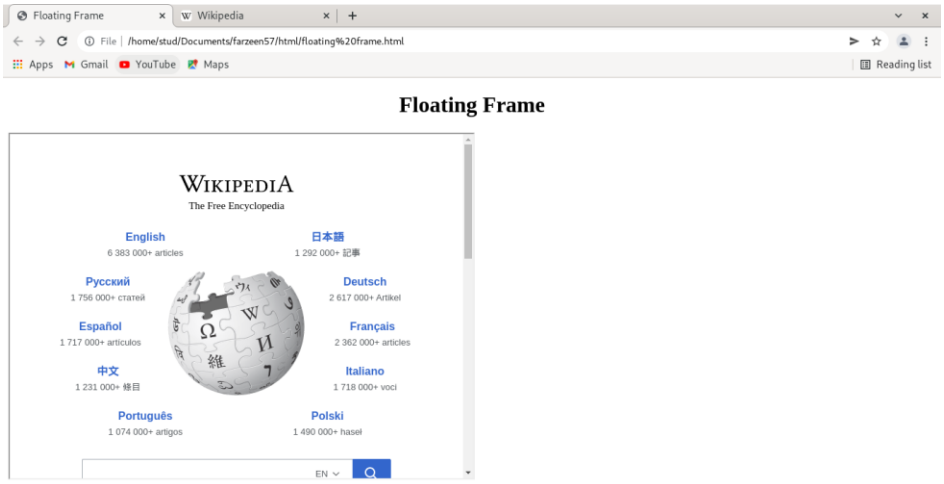
>>frameb.html

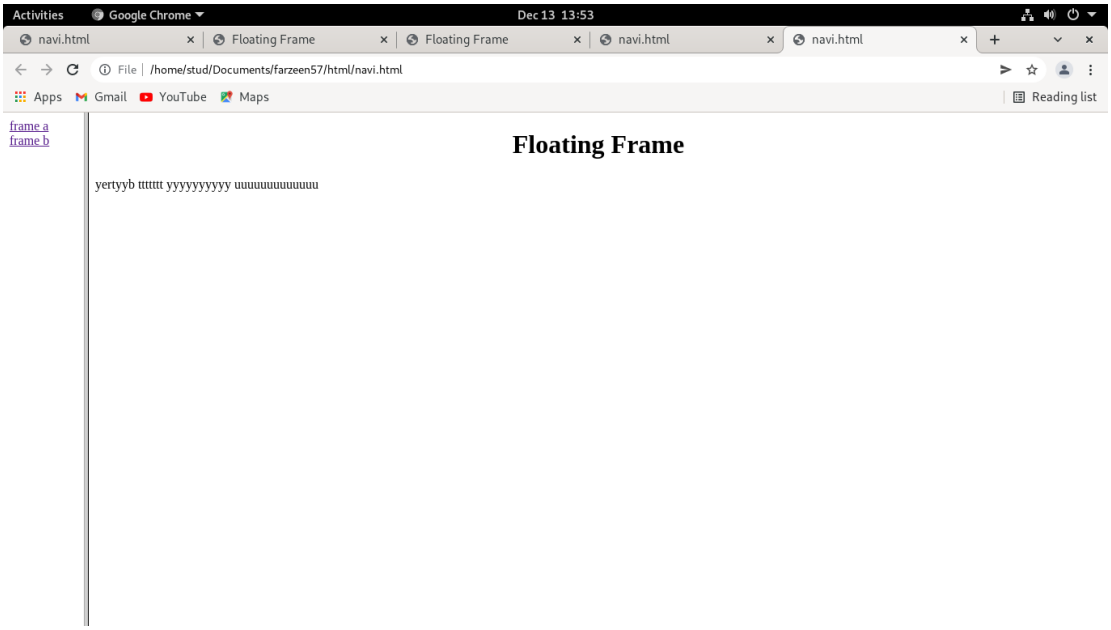
```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>
</head>
<body>
<h1 align="center">Floating Frame</h1>
<p>sssssssssss sssssssss sssssssss</p>

</body>
</html>
```

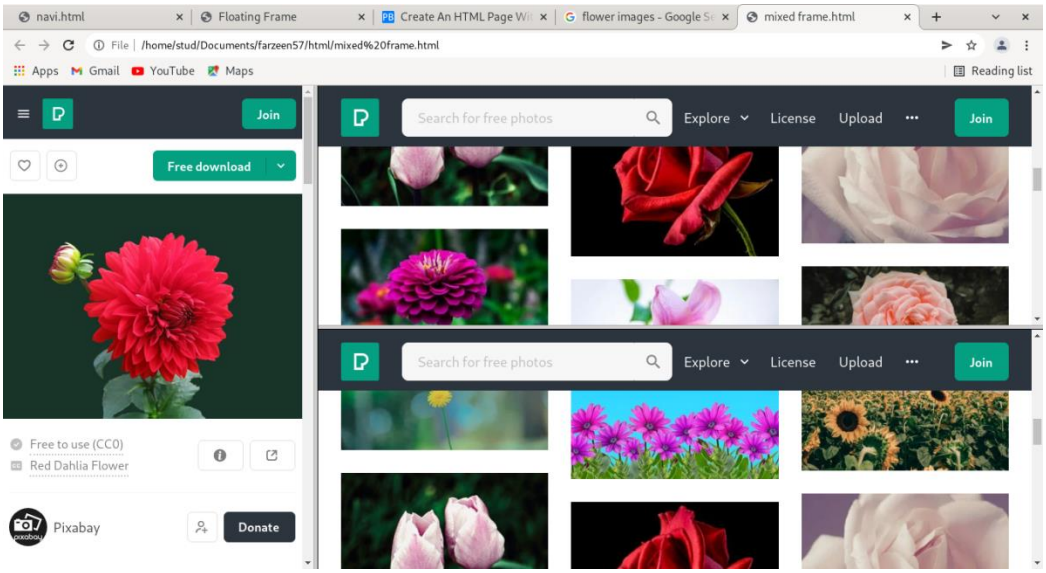
>mixed frame

```
<html>
<frameset cols="30%,*">
<frame
src="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Fred-dahlia-flower-60597%2F&psig=AOvVaw2NIlQtkwbuaPlrlYGHNp_L&ust=1639470926933000&source=images&cd=vfe&ved=0CAgQjRxqFwoTCMiQxKOv4PQCFQAAAAAdAAAAABAD"></frame>
<frameset rows="50%,*">
<frame
src="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Fred-dahlia-flower-60597%2F&psig=AOvVaw2NIlQtkwbuaPlrlYGHNp_L&ust=1639470926933000&source=images&cd=vfe&ved=0CAgQjRxqFwoTCMiQxKOv4PQCFQAAAAAdAAAAABAD" autostart="true">
<frame
src="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Fred-dahlia-flower-60597%2F&psig=AOvVaw2NIlQtkwbuaPlrlYGHNp_L&ust=1639470926933000&source=images&cd=vfe&ved=0CAgQjRxqFwoTCMiQxKOv4PQCFQAAAAAdAAAAABAD" >
</frameset>
</frameset>
</html>
```

Output:-


Floating Frame
Wikipedia
File | /home/stud/Documents/farzeen57/html/floating%20frame.html
Apps
Gmail
YouTube
Maps
Reading list
Floating Frame
WIKIPEDIA
The Free Encyclopedia
English
6 383 000+ articles
日本語
1 292 000+ 記事
Русский
1 756 000+ статей
Deutsch
2 617 000+ Artikel
Español
1 717 000+ artículos
Français
2 362 000+ articles
中文
1 231 000+ 條目
Italiano
1 718 000+ voci
Português
1 074 000+ artigos
Polski
1 490 000+ haseł
EN


Activities
Google Chrome
Dec 13 13:53
navi.html
Floating Frame
Floating Frame
navi.html
navi.html
File | /home/stud/Documents/farzeen57/html/navi.html
Apps
Gmail
YouTube
Maps
Reading list
frame a
frame b
Floating Frame
yertyyb ttttttt yyyyyyyyyy uuuuuuuuuuuuu



Program 5

Aim:-

Analyze CSS by applying the different styles using inline, external & internal
style sheets in a HTML file.

Source code:-

>inline and internal

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>

<style>
body {background-color: powderblue;}
h1   {color: blue;}
p    {color: red;}
</style>
</head>
<body>
<h1 align="center" style="color:blue;">Floating Frame</h1>
```

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
</body>
</html>

>external

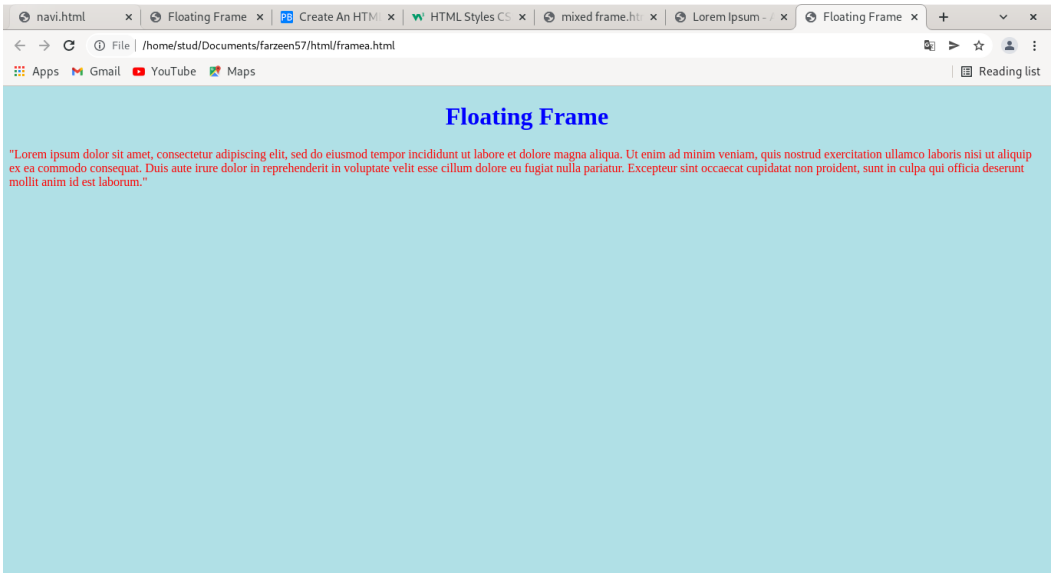
>>styles.css

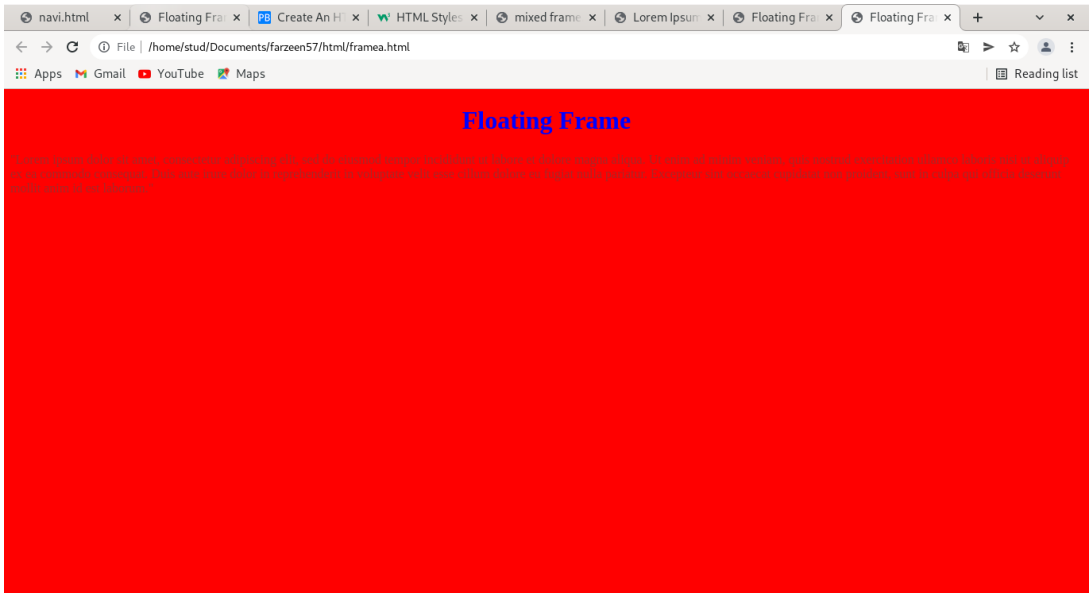
```
body {
  background-color: red;
}
h1 {
  color: black;
}
p {
  color: brown;
}
```

>>html file

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>
<h1 align="center" style="color:blue;">Floating Frame</h1>
<p>"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."</p>
</body>
</html>
```

Output:-


navi.html
Floating Frame
Create An HTM
HTML Styles CS
mixed frame.ht
Lorem Ipsum -
Floating Frame
File | /home/stud/Documents/farzeen57/html/framea.html
Apps
Gmail
YouTube
Maps
Reading list
Floating Frame
"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."


navi.html
Floating Fra
Create An H
HTML Styles
mixed frame
Lorem Ipsum
Floating Fra
Floating Fra
File | /home/stud/Documents/farzeen57/html/framea.html
Apps
Gmail
YouTube
Maps
Reading list
Floating Frame

Program 6

Aim:-

Create a HTML registration form and to validate the form using JavaScript code

Source code:-

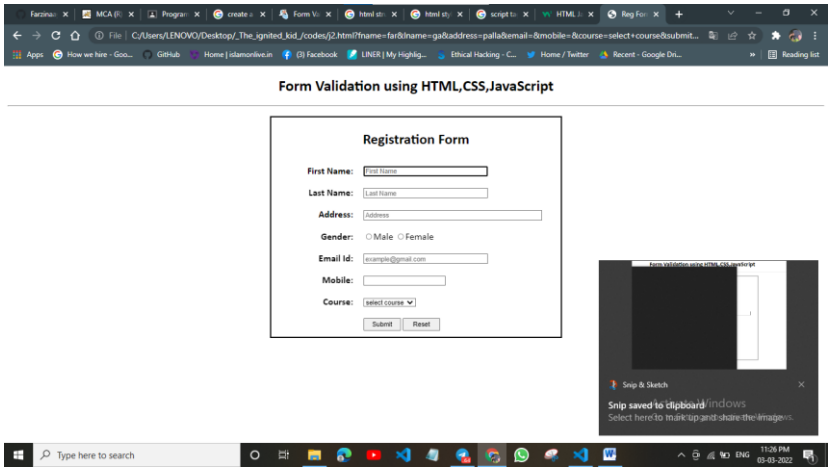
```
<!DOCTYPE html>
<html>
<head>
   <title>Reg Form</title>
   <style type="text/css">
      body{
         font-family: Calibri;
      }
      input[type="text"] {
         width: 250px;
      }
      input[type="submit"], input[type="reset"] {
         width: 77px;
         height: 27px;
         position: relative;left: 180px;
      }
      form{
         text-align: center;
         font-family: Calibri;
         font-size: 20px;
         border: 3px solid black;
         width: 600px;
         margin: 20px auto;
      }
      td {
         padding: 10px;
      }
      td:first-child {
         text-align: right;
```

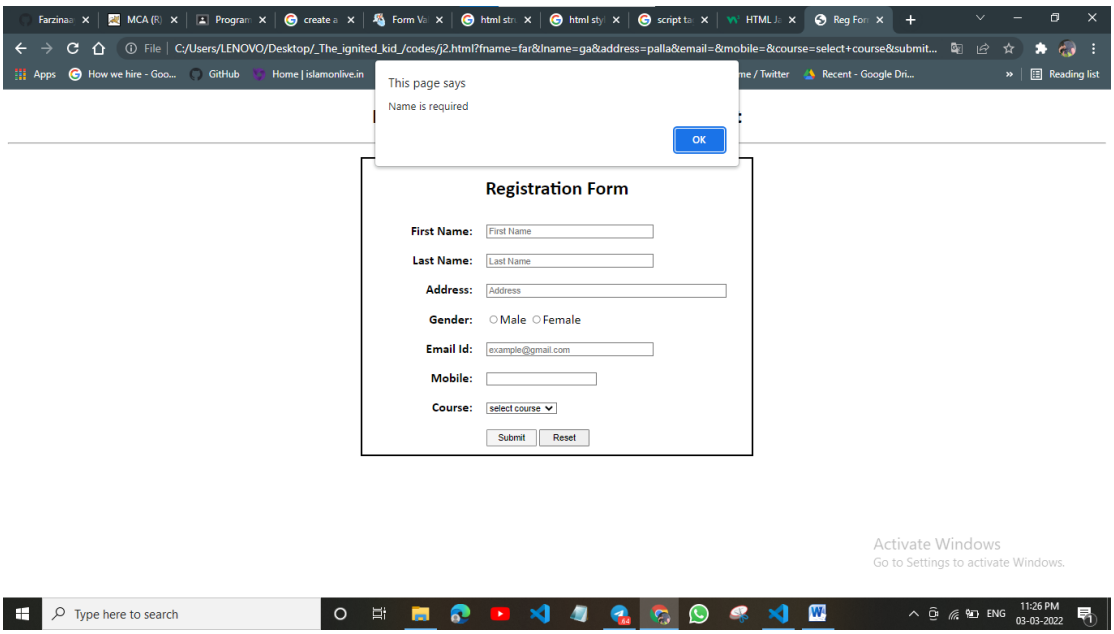
```
        font-weight: bold;
    }
    td:last-child {
        text-align: left;
    }
</style>
<script>
    function validate() {
        var fname = document.reg_form.fname;
        var lname = document.reg_form.lname;
        var address = document.reg_form.address;
        var gender = document.reg_form.gender;
        var email = document.reg_form.email;
        var mobile = document.reg_form.mobile;
        var course = document.reg_form.course;

        if (fname.value.length <= 0) {
            alert("Name is required");
            fname.focus();
            return false;
        }
        if (lname.value.length <= 0) {
            alert("Last Name is required");
            lname.focus();
            return false;
        }
        if (address.value.length <= 0) {
            alert("Address is required");
            address.focus();
            return false;
        }
        if (gender.value.length <= 0) {
            alert("Gender is required");
            gender.focus();
            return false;
        }
        if (email.value.length <= 0) {
            alert("Email Id is required");
            email.focus();
            return false;
        }
        if (mobile.value.length <= 0) {
```

```
            alert("Mobile number is required");
            mobile.focus();
            return false;
        }
        if (course.value == "select course") {
            alert("Course is required");
            course.focus();
            return false;
        }
        return false;
    }
  </script>
</head>
<body>
  <center><h1>Form Validation using HTML,CSS,JavaScript</h1></center>
  <hr>
  <form method="" action="" name="reg_form" onsubmit="return validate()">
    <h2>Registration Form</h2>
    <table>
      <tr>
        <td><label>First Name: </label></td>
        <td>
          <input type="text" name="fname" placeholder="First Name">
        </td>
      </tr>
      <tr>
        <td><label>Last Name: </label></td>
        <td>
          <input type="text" name="lname" placeholder="Last Name">
        </td>
      </tr>
      <tr>
        <td><label>Address: </label></td>
        <td>
          <input type="textarea" size="50" name="address"
placeholder="Address">
        </td>
      </tr>
      <tr>
        <td><label>Gender: </label></td>
        <td>
          <input type="radio" name="gender" value="male">Male
```

```
            <input type="radio" name="gender" value="femele">Female
          </td>
        </tr>
        <tr>
          <td><label>Email Id: </label></td>
          <td>
            <input type="text" name="email"
placeholder="example@gmail.com">
          </td>
        </tr>
        <tr>
          <td><label>Mobile: </label></td>
          <td>
            <input type="number" name="mobile">
          </td>
        </tr>
        <tr>
        <td><label>Course: </label></td>
          <td>
            <select name="course">
              <option value="select course">select course</option>
              <option value="HTML">HTML</option>
              <option value="CSS">CSS</option>
              <option value="JavaScript">JAVASCRIPT</option>
              <option value="Java">JAVA</option>
            </select>
          </td>
        </tr>
        <tr>
          <td>
            <input type="submit" name="submit" value="Submit">
            <input type="reset" name="reset" value="Reset">
          </td>
        </tr>
      </table>
    </form>
</body>
</html>
```

Output:-


Form Validation using HTML,CSS,JavaScript
Registration Form
First Name:
Last Name:
Address:
Gender:
Male
Female
Email Id:
Mobile:
Course:
Submit
Reset
Snip & Sketch
Snip saved to clipboard
Type here to search


This page says
Name is required
OK
Registration Form
First Name:
Last Name:
Address:
Gender:
Male
Female
Email Id:
Mobile:
Course:
Submit
Reset
Activate Windows
Type here to search

Program 7

Aim:-

Create a HTML page to explain the use of various predefined functions in a string and math objects in JavaScript.

(String Functions- Length,slice, substring,substr,replace,toUppercase,toLowercase,concat,trim,charAt,convert string to array,indexof, search,includes)
(Math Functions- round,ceil,floor,trunc,sign, pow,sqrt,abs,sin,cos,min,max,random,log)

Source code:-

>Length

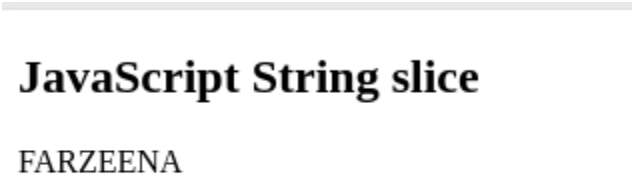
```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String length</h2>

<p id="namelength"></p>

<script>
let text = "FARZEENA P A";
document.getElementById("namelength").innerHTML = text.length;
</script>

</body>
</html>
```

output:-

>SLICE

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String slice</h2>
<p id="nameslice"></p>

<script>
let str = "FARZEENA,FAHMITHA";
document.getElementById("nameslice").innerHTML = str.slice(0,8);
</script>

</body>
</html>
```

output:-



>substring

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String substring</h2>

<p id="subs"></p>

<script>
let str = "farzeena,fahmitha,emelsha";
document.getElementById("subs").innerHTML = str.substring(7,13);
</script>

</body>
</html>
```

output:-

JavaScript String substring

a,fahm

>substr

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String Methods</h2>

<p>The substr() method extract a part of a string
and returns the extracted parts in a new string:</p>

<p id="demo"></p>

<script>
let str = "emel,farzeena,anupama";
document.getElementById("demo").innerHTML = str.substr(5,6);
</script>
```

```
</body>
</html>
```

output:-

JavaScript String Methods

The substr() method extract a part of a string and returns the extracted parts in a new string:

farzee

>String replace

```
<!DOCTYPE html>
<html>

<body>

<h2>JavaScript String replace</h2>

<button onclick="myFunction()">replace</button>

<p id="click">Please visit APPLE!</p>

<script>
function myFunction() {
  let text = document.getElementById("click").innerHTML;
  document.getElementById("click").innerHTML =
  text.replace("APPLE","GOOGLE");
}
</script>

</body>
</html>
```

output:-

JavaScript String replace

replace

Please visit GOOGLE!

>to uppercase&to lowercase

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String uppercase</h2>

<button onclick="myFunction()">click to upcase</button>
<button onclick="myFunction1()">click to lowcase</button>

<p id="demo">INDIA is MY country</p>

<script>
function myFunction() {
  let text = document.getElementById("demo").innerHTML;
  document.getElementById("demo").innerHTML =
  text.toUpperCase();
}
function myFunction1() {
  let text = document.getElementById("demo").innerHTML;
  document.getElementById("demo").innerHTML =
  text.toLowerCase();
}
</script>

</body>
</html>
```

output:-

>string concat

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String concat</h2>
<p id="demo"></p>

<script>
let text1 = "india";
let text2 = "is";
let text3 = "my country";
let text4 = text1.concat(" ",text2);
let text5 = text4.concat(" ",text3);
document.getElementById("demo").innerHTML = text5;
</script>

</body>
</html>
```

output:-

JavaScript String concat

india is my country

>trim

```
<!DOCTYPE html>
<html>
<body>

<h1>JavaScript trim</h1>
<p id="demo"></p>

<script>
let text1 = "     oopss    ";
```

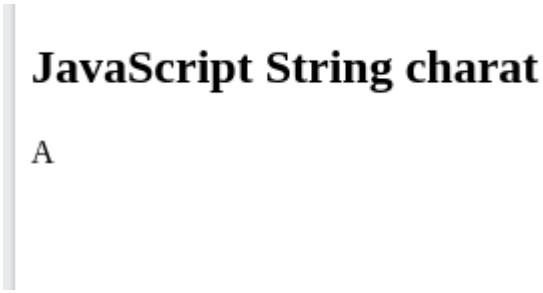
```
let text2 = text1.trim();

document.getElementById("demo").innerHTML =
"Length1 text1=" + text1.length + "<br>Length2 text2=" + text2.length;
</script>

</body>
</html>
```

output:-

>charat()

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String charat</h2>
<p id="demo"></p>

<script>
var text = "FARZEENA";
document.getElementById("demo").innerHTML = text.charAt(7);
</script>

</body>
</html>
```

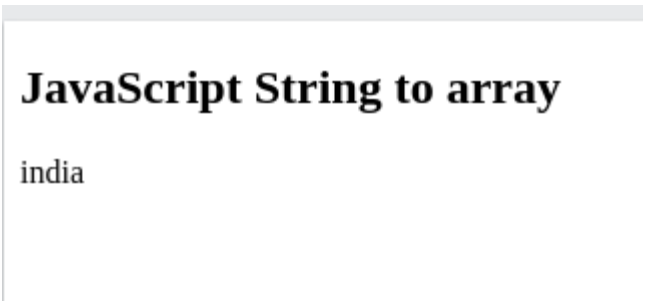
output:-



>string to array

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String to array</h2>
<p id="demo"></p>

<script>
let text = "india*is*my*country";
const myArray = text.split("*");
document.getElementById("demo").innerHTML = myArray[0];
</script>

</body>
</html>
```

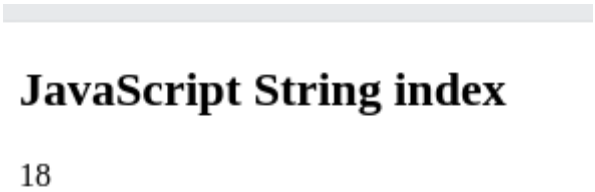
output:-



>index of

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String index</h2>
<p id="demo"></p>

<script>
let str = "find the index of Farzeena";
document.getElementById("demo").innerHTML = str.indexOf("Farzeena");
</script>

</body>
</html>
```

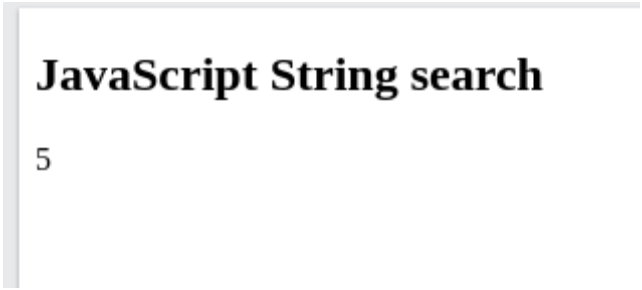
output:-



>search

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String search</h2>
<p id="demo"></p>

<script>
let str = "find farzee from the name farzeena";
document.getElementById("demo").innerHTML = str.search("farzee");
</script>

</body>
</html>
```

output:-



>include

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String include</h2>
<p id="demo"></p>

<script>
let text = "Hello veenu, welcome to the milkyway.";
document.getElementById("demo").innerHTML =
text.includes("veenu");
</script>

</body>
</html>
```

output:-

>math functions

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Math.round()</h2>
<p id="demo"></p>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>
<p id="demo4"></p>
<p id="demo5"></p>
<p id="demo6"></p>
<p id="demo7"></p>
<p id="demo8"></p>
<p id="demo9"></p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo10"></p>
<p id="demo11"></p>
<p id="demo12"></p>
<p id="demo13"></p>
<script>
document.getElementById("demo").innerHTML = Math.round(4.5);
document.getElementById("demo1").innerHTML = Math.ceil(4.4);
document.getElementById("demo2").innerHTML = Math.floor(4.7);
document.getElementById("demo3").innerHTML = Math.trunc(4.7);
document.getElementById("demo4").innerHTML = Math.sign(4);
document.getElementById("demo5").innerHTML = Math.sign(-4);
document.getElementById("demo6").innerHTML = Math.sign();
document.getElementById("demo7").innerHTML = Math.pow(8,2);
document.getElementById("demo8").innerHTML = Math.sqrt(64);
document.getElementById("demo9").innerHTML = Math.abs(-4.4);
document.getElementById("demo10").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
document.getElementById("demo11").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
document.getElementById("demo12").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
document.getElementById("demo13").innerHTML = Math.random();
</script>

</body>
</html>
```

output:-

5

5

4

4

1

-1

NaN

64

8

4.4

Angle in radians = (angle in degrees) * PI / 180.

The sine value of 90 degrees is 1

The cosine value of 0 degrees is 1

150

0.02935530376420248

>log fn

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Math.log()</h2>
<p id="demo"></p>

<script>
document.getElementById("demo").innerHTML = Math.log(6);
</script>

</body>
</html>
```

output:-

JavaScript Math.log()

1.791759469228055

Program 8

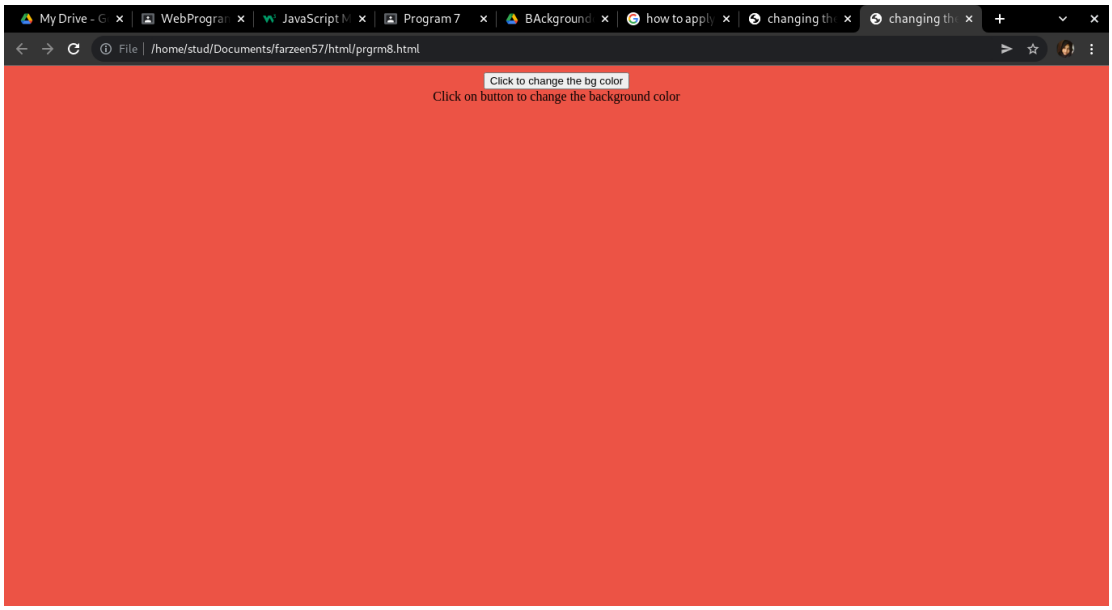
Aim:-

Create a HTML page to change the background color for every click of a button
using JavaScript Event Handling

Source code:-

```
<!DOCTYPE HTML>
<html>
<head>
<title>
changing the background color
</title>
</head>
<body style = "text-align:center;">

<button type="button" id="color-button" onclick="changeBg()">Click to change the
bg color
</button>
<br>
<script>
document.writeln( "Click on button to change the background color");
const pageBody = document.querySelector("body");
function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFF<<0).toString(16);

pageBody.style.background = color;
}
</script>
</body>
</html>
```

Output:-



Program 9

Aim:-

Generate the calendar using JavaScript code by getting the year and month from the user.

Source code:-

```
<!DOCTYPE HTML>
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
```

```
}
th {
font-weight: bold;
background-color: grey;
}
</style>
</head>

<body>
<b>CALENDAR</b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>
<button onclick="calculate()">Click here</button>

<div id="calendar"></div>

<script>

function calculate()  {

   var year = document.getElementById("cal").value;
   var month = document.getElementById("month").value;
   createCalendar(year,month);
}
function getDay(date) {
   let day = date.getDay();
   if (day == 0) day = 7;
   return day - 1;
}
function createCalendar(year, month) {
   let mon = month - 1;
   let d = new Date(year, mon);
   let table =

'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</t
h><th>SAT</th><th>SUN</th></tr><tr>';
   for (let i = 0; i < getDay(d); i++) {
   table += '<td>*</td>';
   }

   while (d.getMonth() == mon) {
   table += '<td>' + d.getDate() + '</td>';
   if (getDay(d) % 7 == 6) {
   table += '</tr><tr>';
   }

   d.setDate(d.getDate() + 1);
   }
   if (getDay(d) != 0) {
```

```
    for (let i = getDay(d); i < 7; i++) {
    table += '<td>*</td>';
    }
    }
    table += '</tr></table>';
    document.getElementById("calendar").innerHTML = table;
}
createCalendar(calendar, year, month);
</script>
</body>
</html>
```

Output:-

CALENDAR **CALENDAR**

Enter The year : 2022

Enter The Month: 3

Click here

MON	TUE	WED	THU	FRI	SAT	SUN
*	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	*	*	*

Program 10

Aim:-

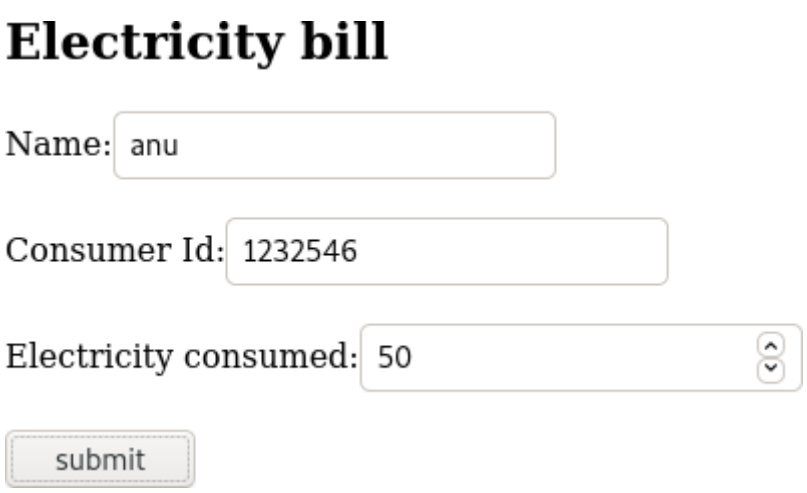
Compose Electricity bill from user input based on a given tariff using PHP.

Source code:-

```
<!DOCTYPE html>

<head>
    <title>PHP - Calculate Electricity Bill</title>
</head>
<?php
$bill = $cost= ' ';
```

```
if (isset($_POST['units-submit'])){
$units = $_POST['units'];
   if(!empty($units)){
   $cost = calculate_bill($units);
   $bill = 'total amount for ' . $units . ' units= ' . $cost;
   }
}
//function to calculate electricity bill
function calculate_bill($units){
$amount = $units*10;
return number_format((float)$amount, 1, '.', '');
}
?>
<body>

      <h1>Calculate your Electricity Bill</h1>
      <form action="" method="post">
            <input type="number" name="units" id="units" placeholder="Please enter
no. of Units" />
            <input type="submit" name="units-submit" id="units-submit"
value="Submit" />
      </form>
      <div>
        <?php echo '<br />' . $bill; ?>
      </div>

</body>
</html>
```

Output:-



Program 11

Aim:-

Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.

Source code:-

```
<?php
$stud=array("Anupama","Athira","Izra");
echo "List of Students";
echo "<br>";
print_r($stud);
echo "<br>";
echo "Sorted list:";
echo "<br>";
asort($stud);
print_r($stud);
echo "<br>";
echo "Reverse list:";
echo "<br>";
arsort($stud);
print_r($stud);
?
```

Output:-

```
List of Students
Array ( [0] => Anupama [1] => Athira [2] => Izra )
Sorted list:
Array ( [0] => Anupama [1] => Athira [2] => Izra )
Reverse list:
Array ( [2] => Izra [1] => Athira [0] => Anupama )
```

Program 12

Aim:-

Build a PHP code to store name of Indian Cricket players in an array and display
the same in HTML table.

Source code:-

```
<!DOCTYPE html>

<html>

<body>

 <?php

 $Indcricketers= array("Virat Kohli", "M S Dhoni", "Rohit Sharma");

 echo "Indian Cricketers: " . $Indcricketers[0] . ", " . $Indcricketers[1] .

" and " .$Indcricketers[2] . ".";

 echo "<h3>INDIAN CRICKETERS</h3><table border='1'>

          <tr>

          <th>NO</th>
```

```
        <th>NAMES</th>
        </tr>
        <tr>
        <td>1</td>
        <td>Virat Kohli</td>
        </tr>
        <tr>
        <td>2</td>
        <td>M S Dhoni</td>
        </tr>
        <tr>
        <td>3</td>
        <td>Rohit Sharma</td>
        </tr>";
        ?>
</body>
</html>
```

Output:-

Indian Cricketers: Virat Kohli, M S Dhoni andRohit Sharma.

INDIAN CRICKETERS

NO	NAMES
1	Virat Kohli
2	M S Dhoni
3	Rohit Sharma

Program 13

Aim:-

Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the
title specified by the user and to display the search results with proper headings.

Source code:-

>>BookInfo.html

```
<html>
<head>
<title>Book</title>

</head>

<body align="center"><u>BOOK INFORMATION SYSTEM</u><br>

<a href="add_book.html">Add Book</a><br>

<a href="search.html">Search Book</a><br>

</body>

</html>
```

>>add_book.html

```
<html>
<head>

<title>Add Book</title></head>

<body>

<form name="frm1" action="addl.php" method="POST">

<center><b><u>Enter the Book Details</u></b><br>

Access Number:<input type="text" name="num"><br>

Title:<input type="text" name="tit"><br>

Author:<input type="text" name="author"><br>

Edition:<input type="text" name="edi"><br>

Publisher:<input type="text" name="pub"><br>

<input type="submit" name="Submit">

<input type="reset" name="Reset">

</form>

</body>

</html>
```

>>addl.php

```
<?php
$AccessNumber = $_POST['num'];
$Title = $_POST['tit'];
$Author = $_POST['author'];
$Edition = $_POST['edi'];
$Publisher = $_POST['pub'];
$con = new
```

```
mysqli("localhost","fisat","fisat","fisatdb");
if($con == false){
echo "Failed to connect";
}
else{
echo "connected";
}

$sql="INSERT INTO BOOKINFO
VALUES($AccessNumber,'$Title','$Author','$Edition','$Publisher')";
if($con->query($sql)){
echo "<BR>";
echo 'New Row Added';
}
else{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

>>search.html

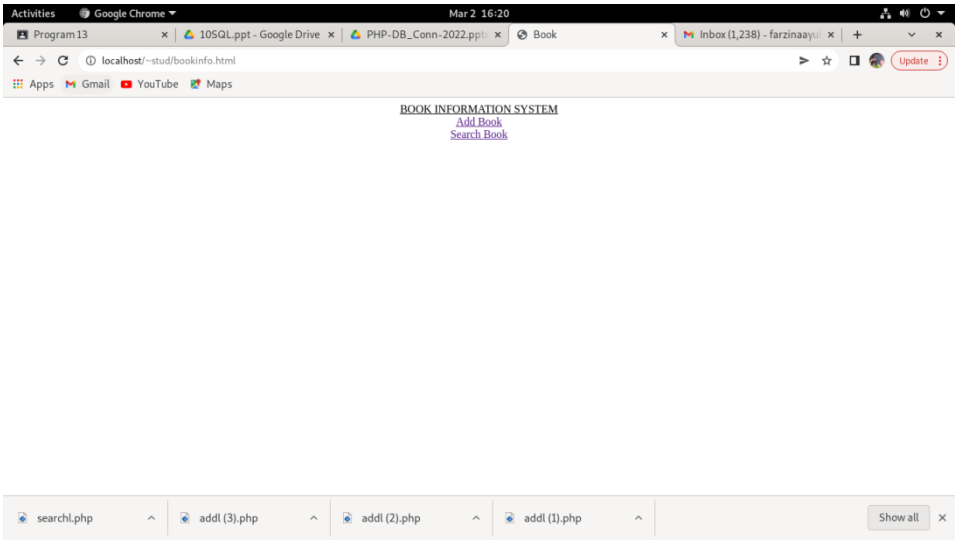
```
<html>

<head>

<title>search</title>

</head>

<body>

<form name="frm2" action="searchl.php"
method="POST">

<center>

<b><u>SEARCH A BOOK</u></b><br>

Enter book title:<input type="text" name="txt"><br>
```

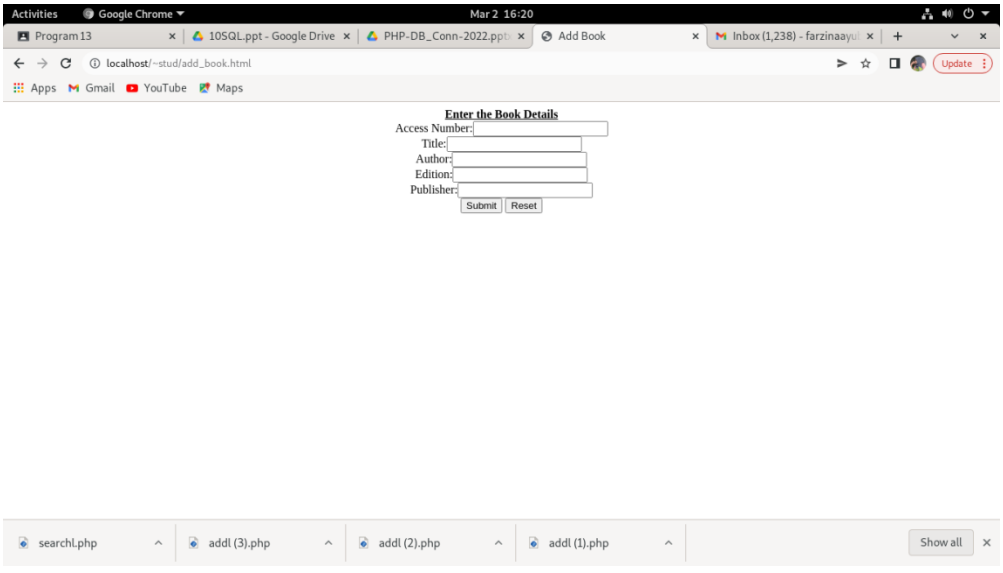
```
<input type="submit" name="Submit">

</center>

</form>

</body>

</html>
```

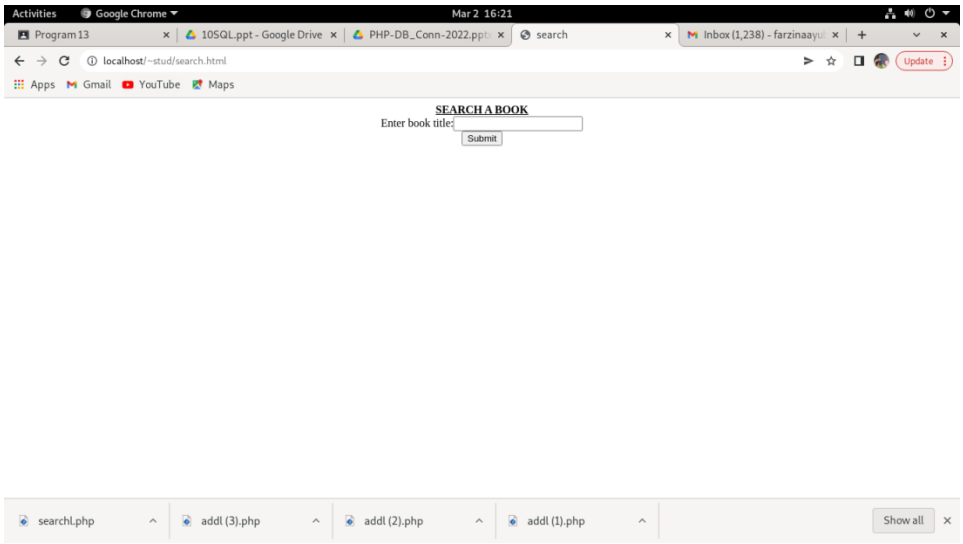
>>searchl.php

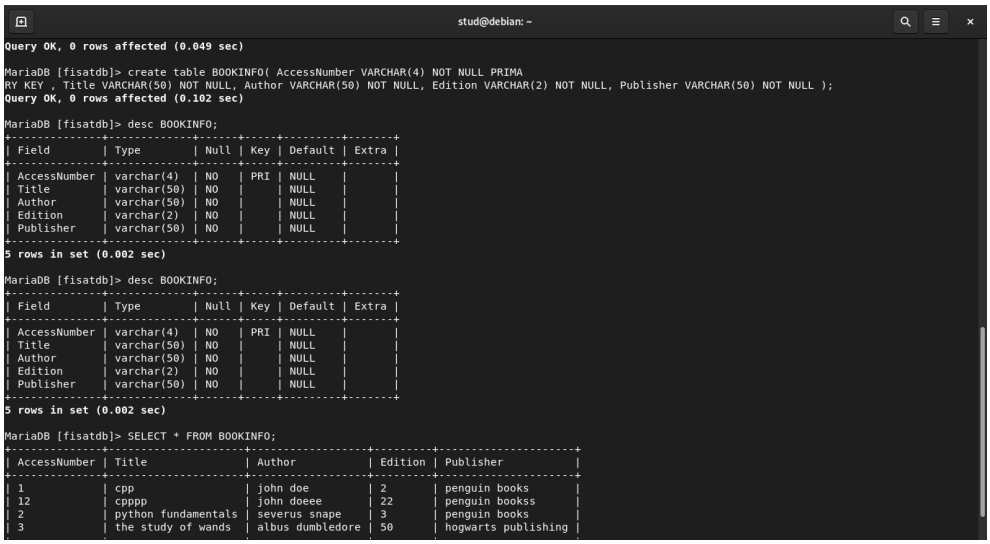
```
<?php
$Title =$_POST['txt'];
$con = new
mysqli("localhost","fisat","fisat","fisatdb");
if($con == false){
echo "Failed to connect";
}
else{
echo "connected\n";
}
$sql="select * from BOOKINFO where Title='$Title'";
if($result=$con->query($sql)){
   if($result->num_rows>0){
      while($row = $result->fetch_array()){
      echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".$row[4]."\n";
      }
      $result->close();
   }
   else{
   echo "\n could not find the book";
   }
}
else{
echo "\n Error: could not connect";
}
$con->close();
?>
```

Output:-


Activities
Google Chrome
Mar 2 16:20
Program 13
10SQL.ppt - Google Drive
PHP-DB_Conn-2022.ppt
Book
Inbox (1,238) - farzinaayu
localhost/~stud/bookinfo.html
Update
Apps
Gmail
YouTube
Maps
BOOK INFORMATION SYSTEM
Add Book
Search Book
searchl.php
addl (3).php
addl (2).php
addl (1).php
Show all


Activities
Google Chrome
Mar 2 16:20
Program 13
10SQL.ppt - Google Drive
PHP-DB_Conn-2022.ppt
Add Book
Inbox (1,238) - farzinaayu
localhost/~stud/add_book.html
Update
Apps
Gmail
YouTube
Maps
Enter the Book Details
Access Number:
Title:
Author:
Edition:
Publisher:
Submit
Reset
searchl.php
addl (3).php
addl (2).php
addl (1).php
Show all





Program 14

Aim:-

Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.

Source code:-

Airline.html

```
<html>
<head>
<title>Airline</title>
</head>
<body align="center"><u>AIRLINE SYSTEM</u><br><br>
<a href="add.html">Add Airline</a><br><br>
<a href="search.html">Search Airline</a><br>
</body>
</html>
```

Add.html

```
<html><head>
<title>Airline details</title></head>
<style>
     label {
       display: inline-block;
       width: 300px;
     }
   </style>
<body>
<form name="frm1" action="addl.php" method="POST">
```

```
<b><u>Enter Airline Details</u></b><br><br>

<label>Airline Number:</label>

<input type="number" name="num"><br></b><br>

<label>Name:</label>

<input type="text" name="name"><br></b><br>

<label>Source:</label>

<input type="text" name="src"><br></b><br>

<label>Destination:</label><input type="text" name="dstn"><br></b><br>

<label>Date:</label><input type="date" name="date"><br></b><br>

<input type="submit" name="Submit">

<input type="reset" name="Reset">

</form>

</body>

</html>
```

Addl.php

```
<?php

$num=$_POST['num'];

$name=$_POST['name'];

$src=$_POST['src'];

$dstn=$_POST['dstn'];

$date=$_POST['date'];

$con=new mysqli("localhost","fisat","fisat","fisatdb");

if($con==false)

{
```

```
echo "Failed to connect\n";
}
else
{
echo "connected\n";
}
$sql="INSERT INTO airline028 VALUES($num,'$name','$src','$dstn','$date')";
if($con->query($sql))
{
echo "<BR>";
echo "New row added\n";
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

Search.html

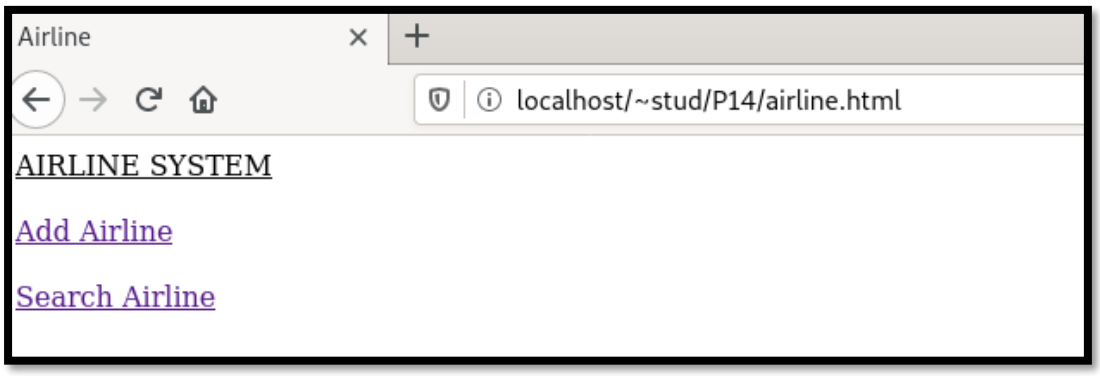
```
<html>
<head>
<title>search</title>
<style>
    label {
```

```
        display: inline-block;
        width: 300px;
      }
    </style>
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH AIRLINE</u></b><br><br>
<label>Enter Source:</label>
<input type="text" name="src"><br><br>
<label>Enter Destination:</label>
<input type="text" name="dstn"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

Searchl.php

```
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
```

```
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline028 where Source='$src' and Destination='$dstn'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
   $row[4]."\n\n";}
$result->close();
}
else
{
echo "\nCould not found the book";
}
}
else
{
echo "\nError:could not connect";
```

```
}

$con->close();

?>
```

Output:-