FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

20MCA133 WEB PROGRAMMING LAB

LABORATORY RECORD

Name: ANN MARIYA T M

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 28

University Registration Number: FIT21MCA-2029

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ***ANN MARIYA T M (FIT21MCA-2029)*** *in the* ***20MCA133 WEB PROGRAMMING LAB*** *Laboratory towards the partial fulfilment for the award of the Master Of Computer Applications during the academic year 2021-2022.*

Signature of Staff in Charge

Name:

Signature of H O D

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

CONTENT

13	**17/01/2022**	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	**51**	
14	**17/01/2022**	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.	**57**	

Experiment No: 1

Aim: Create a simple html file to demonstrate the use of different tags.

Source code

```
<html>
<head><title>My Place</title>
<style>
</style>
</head>
<body>
        <h1 align="center">THRISSUR</h1><br>
        <p><b>Thrissur </b>(formerly Trichur) is a district of Kerala situated in the central part of the state. Spanning an area of about 3,032 km2 (1,171 sq mi), Thrissur district is home to over 9% of Kerala's population.Thrissur district is bordered by the districts of Palakkad and Malappuram to the north, and the districts of Ernakulam and Idukki to the south and Coimbatore to the east. The Arabian Sea lies to the west and Western Ghats stretches towards the east.Thrissur district was formed on 1 July 1949, with the headquarters at Thrissur City. Thrissur is known as the cultural capital of Kerala, and the land of Poorams. The district is known for its ancient temples, churches, and mosques. Thrissur Pooram is the most colourful temple festival in Kerala.</p><br>
        <center><img src="/home/ccf/Annmariya/Vadakkumnathan_Temple.jpg" width="1500px" height="500px" display="none"></center>
        <ul>
        <li><h3>HISTORY</h3></li>
<P>From ancient times, Thrissur District has played a part in the political history of Kerala.The early political history of the District is interlinked with that of the Cheras of the Sangam age, who ruled over vast portions of Kerala with their capital at Vanchi. The whole of the present Thrissur District was included in the early Chera Empire. The District can claim to have played a part in fostering the trade relations between Kerala and the outside world in the ancient and medieval period.<i>Kodungalloor</i>, which had the distinction of being the "Premium Emporium of India", gave shelter to all the three communities which have contributed to the prosperity of Malabar. These three communities are the Christians, the Jews and the Muslims. The history of Thrissur district from the 9th to the 12th centuries is the
```

history of Kulasekharas of Mahodayapuram and the history since the 12th century is the history of the rise and growth of Perumpadappu Swarupam.In 1790 Raja Rama Varma (1790–1805) popularly known as Saktan Tampuran ascended the throne of Cochin. With the accession of this ruler the English or modern period in the history of Cochin and of the District began. Saktan Tampuran was mainly responsible for the destruction of the power of the feudal Nair chieftains and increase of royal power. Another force in the public life of Trichur and its suburbs was the Namboodithiri community and Menons of royal ancestry. A large part of the Trichur Taluk was for long under the domination of the Yogiatiripppads, the ecclesiastical heads of the Vadakkunnathan and Perumanam Devaswoms.The wave of nationalism and political consciousness which swept through the country since the early decades of this century has its repercussions in the District as well. Thrissur District has been in the forefront of the country-wide movement for temple entry and abolition of untouchability. The Guruvayur Satyagraha is a memorable episode in the history of the national movement.

Hinduism is the majority religion in Trissur, with 58.4%.Christians and Muslim form significant minority.

Hindu community
The Hindu community consists of mainly Nairs, Ezhavas, Ambalavasis, Brahmins (including the local Namboodiris and migrants like Iyers and Gouda Saraswat Brahmins) etc. The Scheduled Castes, around 12% of the population of the district, also form a section among the Hindus of the district.

Christian Community

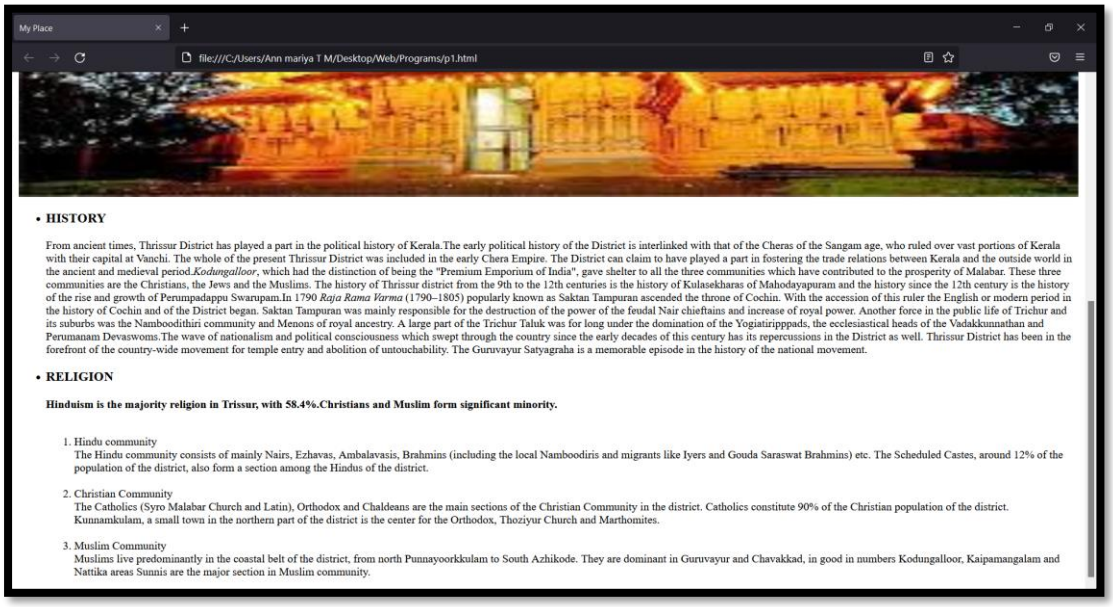
The Catholics (Syro Malabar Church and Latin), Orthodox and Chaldeans are the main sections of the Christian Community in the district. Catholics constitute 90% of the Christian population of the district. Kunnamkulam, a small town in the northern part of the district is the center for the Orthodox, Thoziyur Church and Marthomites.

Muslim Community

Muslims live predominantly in the coastal belt of the district, from north Punnayoorkkulam to South Azhikode. They are dominant in Guruvayur and Chavakkad, in good in numbers Kodungalloor, Kaipamangalam and Nattika areas Sunnis are the major section in Muslim community.

```
        </ol>
        </ul>
</body>
</html>
```

Output



Experiment No: 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 color elements. The design should contain a minimum of 3 hyperlinks

Source code

Biodata.html

```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
1.PERSONAL DETAILS
<hr size=2 noshade>
<img src="download.png" height="250px" width="400px" align="right"><br>
<table width=700px>
<tr>
<td>Name</td>
<td>: Ann mariya T M</td>
</tr>
<tr>
<tr>
<td>Address</td>
<td>: Thattil kada</td>
</tr>
<td>Date of birth</td>
<td>: 31 March 2001</td>
</tr>
<tr>
<td>Age</td>
<td>: 20</td>
</tr>
<tr>
```

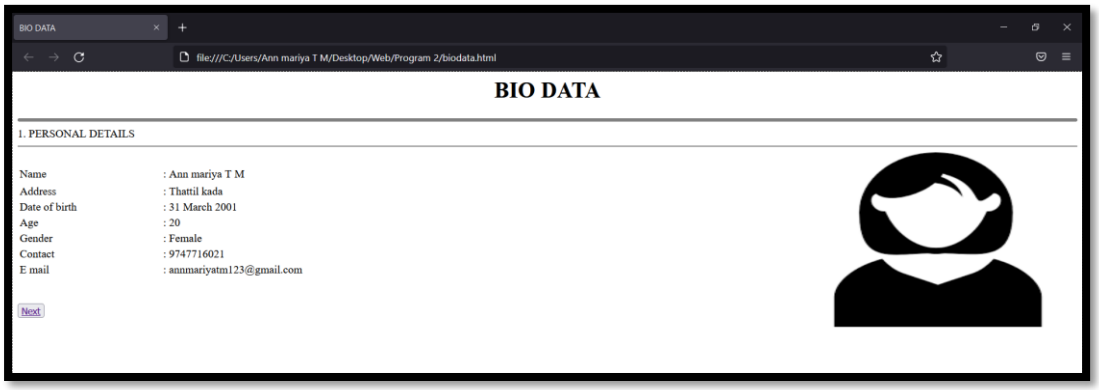
```
<td>Gender</td>
<td>: Female</td>
</tr>
<tr>
<td>Contact</td>
<td>: 9747716021</td>
</tr>
<tr>
<td>E mail</td>
<td>: annmariyatm123@gmail.com</td>
</tr>
</table><br><br>
<button name="Next"><a href="academic.html">Next</a></button>
</body>
</html>
```

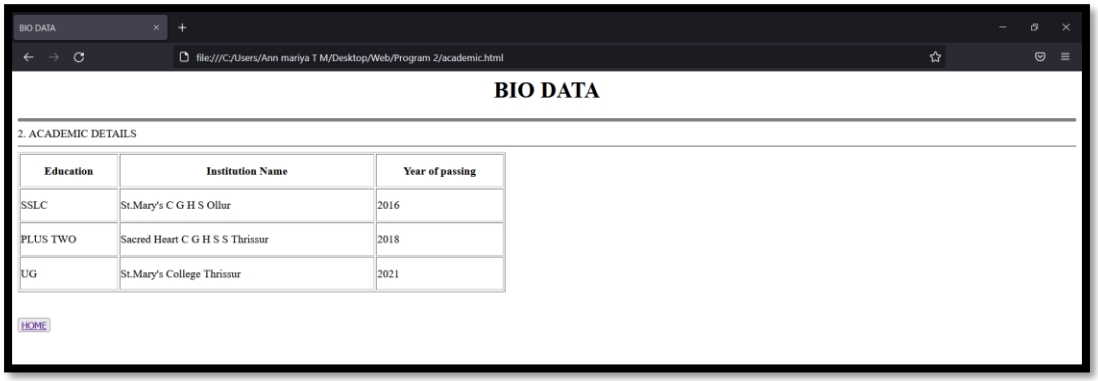
Academic.html

```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
2.ACADEMIC DETAILS
<hr size=2 noshade></hr>
<table width=700px height=200px border=1>
<tr>
<th>Education</th>
<th>Institution Name</th>
<th>Year of passing</th>
</tr>
<tr>
<td>SSLC</td>
<td>St.Mary's C G H S Ollur</td>
```

```
<td>2016</td>
</tr>
<tr>
<td>PLUS TWO</td>
<td>Sacred Heart C G H S S Thrissur</td>
<td>2018</td>
</tr>
<tr>
<td>UG</td>
<td>St.Mary's College Thrissur</td>
<td>2021</td>
</tr>
</table><br><br>
<button name="home" value="home"><a href="biodata.html"
nocolor>HOME</a></button>
</body>
</html>
```

Output





Experiment No: 3

Aim: Create an application form for MCA course in FISAT.

Source code

```
<html>
<head>
<title>Application form</title>
  <style>
     label {
       display: inline-block;
       width: 300px;
     }
   </style>
</head>
<body>
<center><img src="download.png"></center><br>
<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>
<hr size=5 noshade></hr>
<h2><center><u>Application Form</u></center></h4><br><br>
<form width="600px" align="left">
<h3><i><u>Basic Details</u></i></h3><br>
<label>Name</label>
<input type="text" name="name" required><br><br><br>
<label>Permanent Address</label>
<textarea cols="20" rows="3" required></textarea><br><br><br>
```

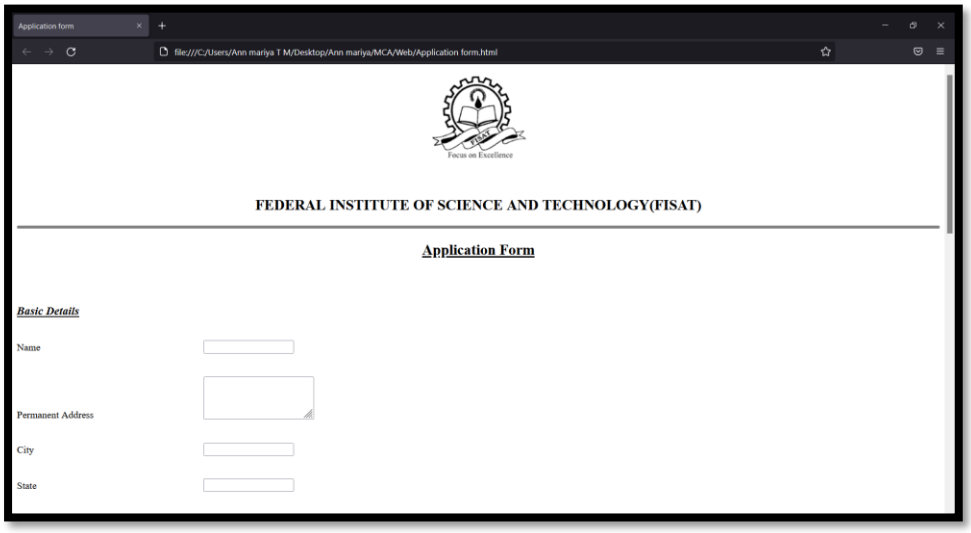
```
<label>City</label>

<input type="text" name="city" required><br><br><br>

<label>State</label>

<input type="text" name="name" required><br><br><br>

<label>Country</label>

<input type="text" name="name" required><br><br><br>

<label>Pincode</label>

<input type="text" name="name" required><br><br><br>

<label>Mobile</label>

<input type="number" name="name" required><br><br><br>

<label>Alternative Contact Number</label>

<input type="text" name="name" required><br><br><br>

<label>Email</label>

<input type="email" name="name" required><br><br><br>

<label>Date of birth </label>

<input type="date" name="name" required><br><br><br>

<label>Gender</label>

<input type="radio" name="gender" value="male">Male   

<input type="radio" name="gender" value="female">Female<br><br><br>

<label>Nationality</label>

<input type="text" name="name" required><br><br><br>

<label>Religion</label>

        <select>

                <option selected>Select</option>
```

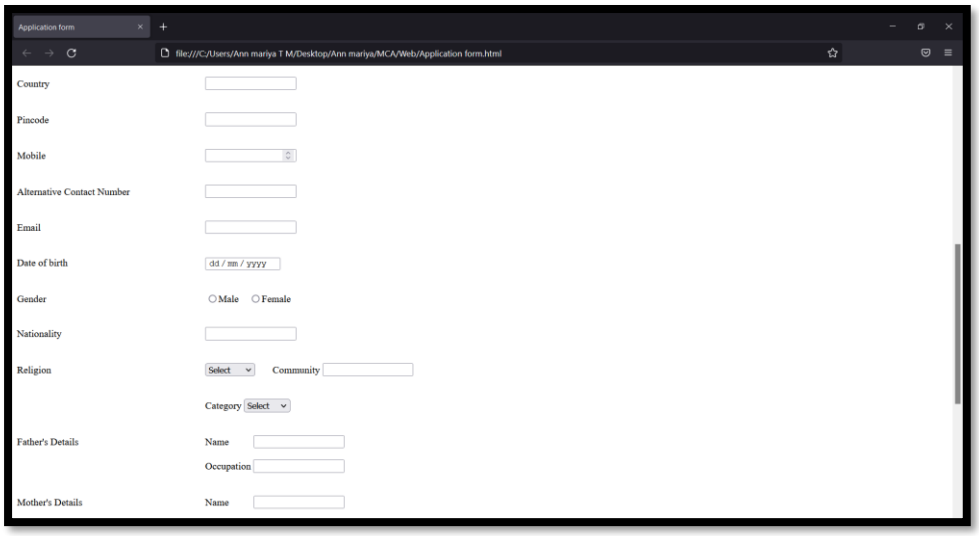
```
                <option>Hindu</option>
                <option>Christian</option>
                <option>Muslim</option>
                <option>Others</option>
        </select>      
        Community <input type="text" required> <br><br><br>
                             
        Category
                <select>
                <option selected>Select</option>
                <option>General</option>
                <option>SC</option>
                <option>ST</option>
                <option>OBC</option>
                <option>OEC</option>
                <option>Others</option>
        </select><br><br><br>
<label>Father's Details</label>
        Name
         <input type="text"
required><br><br>
                             
        Occupation <input type="text" required><br><br><br>
```

```
<label>Mother's Details</label>

        Name
         <input type="text"
required><br><br>

                  &nb
sp;          

        Occupation <input type="text" required><br><br>

<hr size=3 noshade></hr><br>

<h3><i><u>Academic Qualifications</u></i></h3><br><br>

<label>Entrance Rank (If available)</label>

<input type="number"><br><br>

<label>Tenth % </label>

<input type="number"><br><br>

<label>Plus Two %</label>

<input type="number"><br><br>

<label>Graduation Course</label>

<input type="radio" name="course" value="Bsc">Bsc   

<input type="radio" name="course" value="BCA">BCA   

Others: <input type="text" name="course"><bt><br><br>

<label>Degree Percentage</label>

<input type="number"><br><br><br><br>

<center><button name="submit" value="submit">SUBMIT</button></center>

</form>

</form>

</form>
```

```
</body>

</html>
```

Output





Experiment No: 4

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

Source code

Main.html

```
<html>
<head>
<title>Frames</title>
</head>
<frameset rows="150,*">
        <frame name="topF" src="top.html">
<frameset cols="300,*">
<frame name="navF" src="navigation.html">
<frame name="mainF" src="intro.html">
        <frameset rows="75,*">
        <frame src="top.html">
        </frameset>
</frameset>
</html>
```

Navigation.html

```
<html>
<head>
<title>Navigation Bar</title>
</head>
<body align=justify>
<a href="intro.html" target="mainF">Home</a><br><br>
<a href="Course.html" target="mainF">Course</a><br><br>
<a href="about.html" target="mainF">About</a><br><br>
</center>
</body>
</html>
```

Intro.html

```
<html>
<head><title>FISAT</title></head>
<body align="center">
<img src="download.png" width="700px" height="500px">
</body>
</html>
```

Course.html

```
<html>
<head>
<title>Courses</title>
</head>
<body>
<h3>Courses Available in FISAT...</h3><br><br>
<table border=2 width=1000 height=400>
<tr><th>Course</th>
<th>Duration</th>
<th>Intake</th>
</tr>
<tr>
<td>B.Tech in Computer Science & Engineering (CSE)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech in Electronics & Communication Engineering (ECE)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech in Civil Engineering (CE)</td>
```

```
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech in Mechanical Engineering (ME)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>Master of Computer Applications (MCA)</td>
<td>2 Years</td>
<td>120</td>
</tr>
<tr>
<td>Master of Business Administrations (MBA)</td>
<td>2 Years</td>
<td>120</td>
</tr>
</table>
<br><br>
<iframe src="https://fisat.ac.in/pages/profile" width=900 height=300>
</iframe>
</body>
</html>
```

About.html

```
<html>
<head>
<title>Courses</title>
</head>
<body width=500 align=center>
<p align=justify><b><i>Federal Institute of Science And Technology (FISAT)®
```

</i>is a private self financing Engineering College, established and run by the Federal Bank Officers Association Educational Society (FBOAES). The FBOAES is an initiative of the Federal Bank Officers Association (FBOA), the sole representative body of the entire officers of the Federal Bank.

Federal Institute of Science And Technology (FISAT) has a unique position in the Professional Education Sector in South India. With the motto "Focus on Excellence", FISAT has been designed and developed to become a `Centre of Excellence` in professional education. Established in the year 2002, the college has carved a niche for itself in education world, eloquently demonstrated by the flying colors attained by its students in academics, placements as well as extra curricular and co curricular activities. FISAT has embarked on an ambitious plan to enhance the quality and value of education and develop high quality individuals. The institution is accredited by NAAC with 'A' Grade. Five B.Tech branches are accredited by NBA. The institution also received the coveted ISO 9001:2015 certification.

FISAT is set up at Mookannoor, near Angamaly in Ernakulam District, Kerala, the birth place of the founder of The Federal Bank Ltd, Late K P Hormis. To honour the revered memory of the great visionary, the campus of FISAT is christened 'Hormis Nagar'.

FISAT is affiliated to Kerala Technological University (KTU), Mahatma Gandhi University, Kottayam, Kerala and approved by All India Council for Technical Education (AICTE), New Delhi.

FISAT conducts six B.Tech courses in Engineering, MBA programme (with specialization in Finance, Marketing, Human Resource Management, Information System, Production & Operations Management and International Business), MCA programme and six M.Tech courses.

</body>

</html>

Why_fisat.html

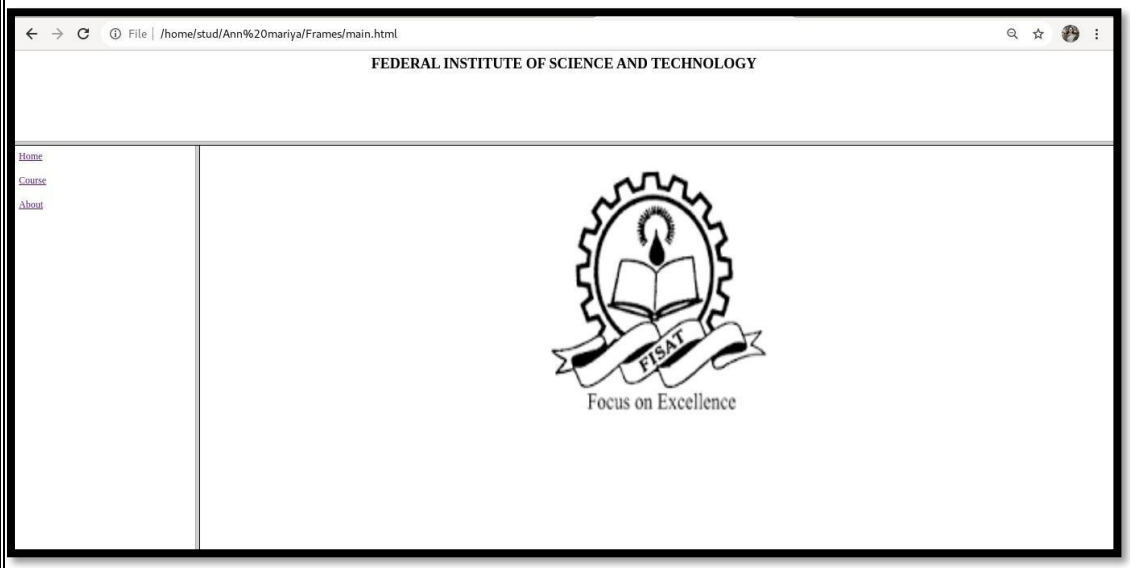
<html>

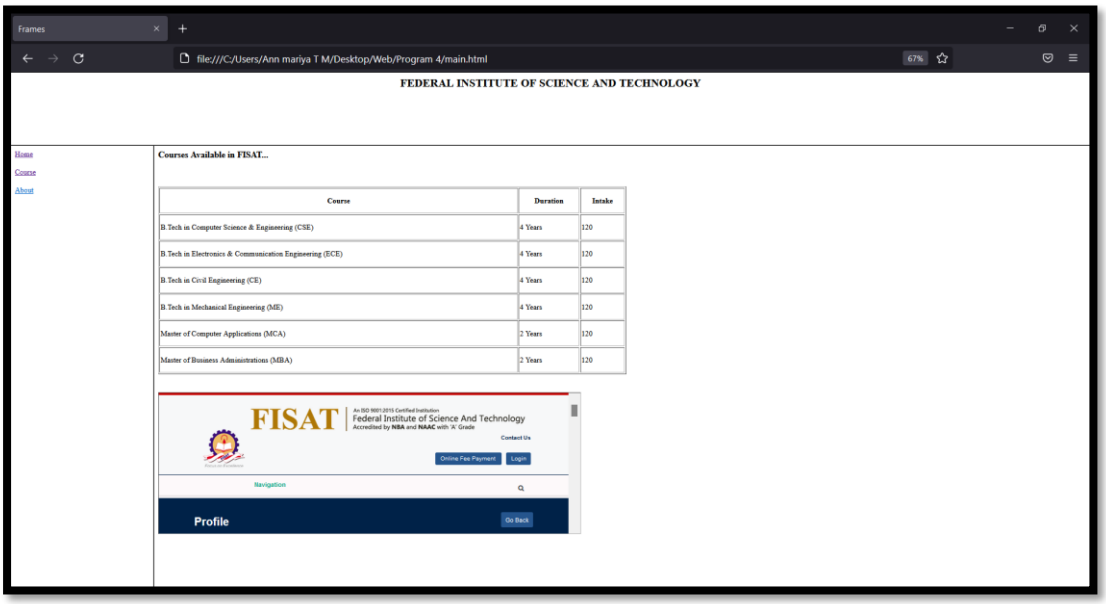
```
<head>
<title></title>
</head>
<body>
<h2 align=center>Why FISAT???</h2>
<iframe src="https://fisat.ac.in/pages/profile" width=900 height=300>
</iframe>
</body>
</html>
```

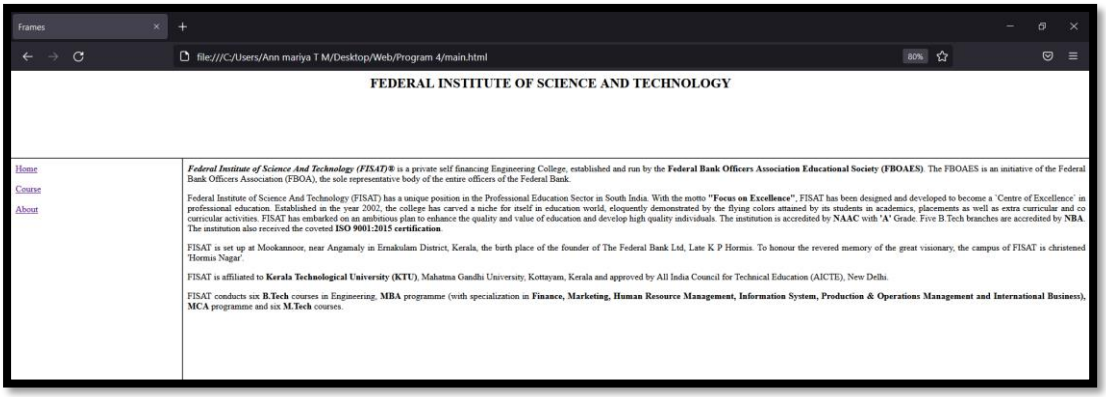
Top.html

```
<html>
<head>
<title></title>
</head>
<body>
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY</center></h2>
</body>
</html>
```

Output


File | /home/stud/Ann%20mariya/Frames/main.html
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
Home
Course
About
FISAT
Focus on Excellence


Frames
file:///C:/Users/Ann mariya T M/Desktop/Web/Program 4/main.html
67%
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
Home
Course
About
Courses Available in FISAT...
Course
Duration
Intake
B.Tech in Computer Science & Engineering (CSE)
4 Years
120
B.Tech in Electronics & Communication Engineering (ECE)
4 Years
120
B.Tech in Civil Engineering (CE)
4 Years
120
B.Tech in Mechanical Engineering (ME)
4 Years
120
Master of Computer Applications (MCA)
2 Years
120
Master of Business Administrations (MBA)
2 Years
120
FISAT
Federal Institute of Science And Technology
Contact Us
Online Fee Payment
Login
Navigation
Profile
Go Back


Frames
file:///C:/Users/Ann mariya T M/Desktop/Web/Program 4/main.html
80%
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
Home
Course
About
Federal Institute of Science And Technology (FISAT)® is a private self financing Engineering College, established and run by the Federal Bank Officers Association Educational Society (FBOAES). The FBOAES is an initiative of the Federal Bank Officers Association (FBOA), the sole representative body of the entire officers of the Federal Bank.
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Experiment No: 5

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

Source code

Biodata.html

```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
1.PERSONAL DETAILS
<hr size=2 noshade>
<img src="download.png" height="250px" width="400px" align="right"><br>
<table width=700px>
<tr>
<td>Name</td>
<td>: Ann mariya T M</td>
</tr>
<tr>
<tr>
<td>Address</td>
<td>: Thattil kada</td>
</tr>
<td>Date of birth</td>
<td>: 31 March 2001</td>
</tr>
<tr>
<td>Age</td>
<td>: 20</td>
</tr>
<tr>
```

```
<td>Gender</td>
<td>: Female</td>
</tr>
<tr>
<td>Contact</td>
<td>: 9747716021</td>
</tr>
<tr>
<td>E mail</td>
<td>: annmariyatm123@gmail.com</td>
</tr>
</table><br><br>
<button name="Next"><a href="academic.html">Next</a></button>
</body>
</html>
```

Academic.html

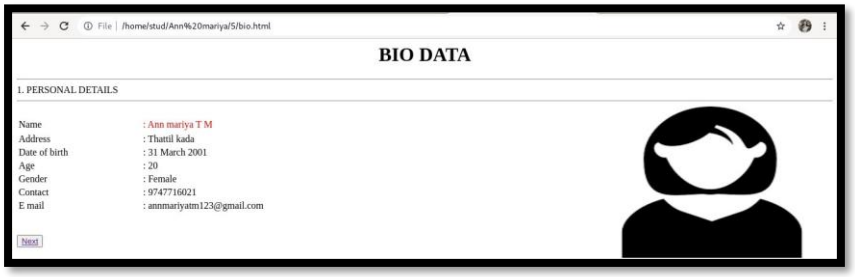
```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
2.ACADEMIC DETAILS
<hr size=2 noshade></hr>
<table width=700px height=200px border=1>
<tr>
<th>Education</th>
<th>Institution Name</th>
<th>Year of passing</th>
</tr>
<tr>
<td>SSLC</td>
<td>St.Mary's C G H S Ollur</td>
```

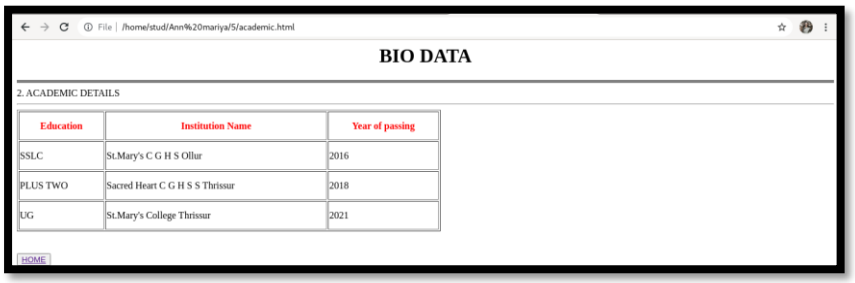
```
<td>2016</td>
</tr>
<tr>
<td>PLUS TWO</td>
<td>Sacred Heart C G H S S Thrissur</td>
<td>2018</td>
</tr>
<tr>
<td>UG</td>
<td>St.Mary's College Thrissur</td>
<td>2021</td>
</tr>
</table><br><br>
<button name="home" value="home"><a href="biodata.html"
nocolor>HOME</a></button>
</body>
</html>
```

Stylesheet.css

```
.img {src:download.png; height:250px; width:400px;}
.hr1 {size:5 noshade;}
.hr2 {size:2 noshade;}
```

Output





Experiment No:6

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

Source code

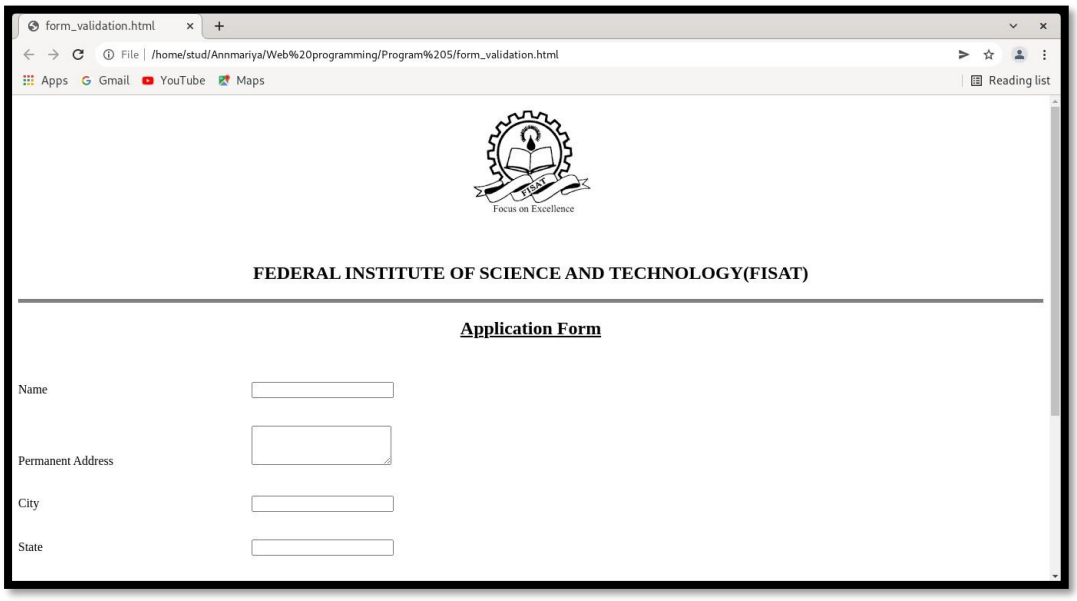
```
<!DOCTYPE html>
<html><head>
<script>
function validateForm() {
var a =
document.forms["myForm"]["fname
"].value; if (a == "") {
alert("Name
must be filled
out"); return
false;
}
var b =
document.forms["myForm"]["add
"].value; if (b == "") {
alert("Address
must be filled
out"); return false;
}
var d =
document.forms["myForm"]["city
"].value; if (d == "") {
alert("City
must be filled
out"); return
false;
}
var e =
document.forms["myForm"]["state
```

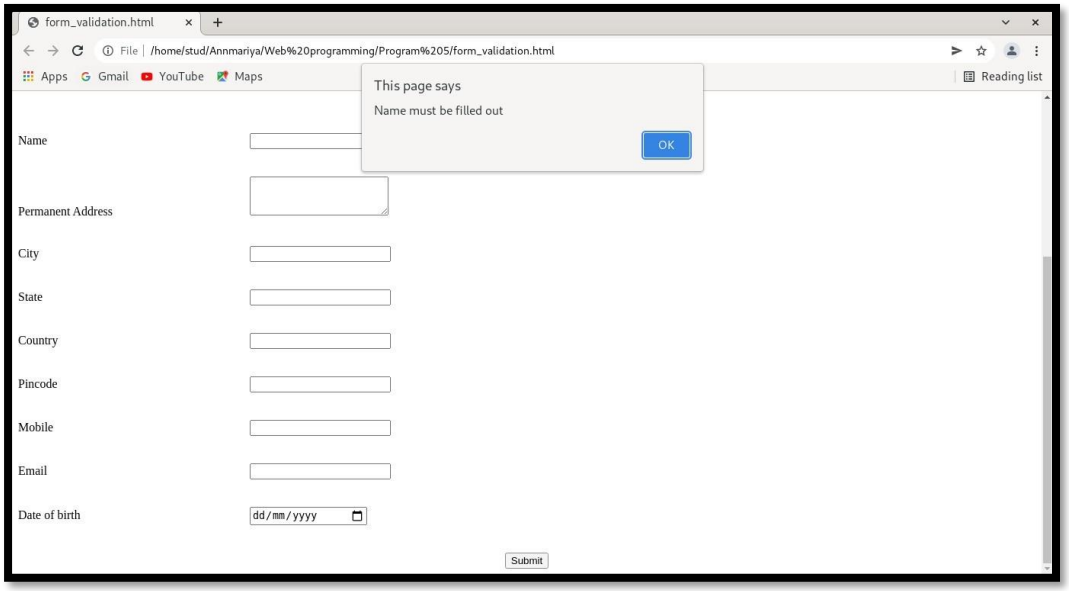
```
"].value; if (e == "") {
alert("State
must be filled
out"); return
false;
}
var f =
document.forms["myForm"]["countr
y"].value; if (f == "") {
alert("Country
must be filled
out"); return false;
}
var g =
document.forms["myForm"]["pin
"].value; if (g == "") {
alert("Pin code
must be filled
out"); return false;
}
var h =
document.forms["myForm"]["mob
"].value; if (h == "") {
alert("Mobile
must be filled
out"); return
false;
}
var i =
document.forms["myForm"]["mai
l"].value; if (i == "") {
alert("Mail
must be filled
out"); return
```

```
false;
}
var j =
document.forms["myForm"]["do
b"].value; if (j == "") {
alert("DOB
must be filled
out"); return
false;
}
}
</script>
<style>
    label {
        display: inline-block;
        width: 300px;} </style>
</head>
<body>
<center><img src="download.png"></center><br>
<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>
<hr size=5 noshade></hr>
<h2><center><u>Application Form</u></center></h4><br><br>
<form name="myForm"
action="/action_page_post.php"
onsubmit="return validateForm()"
method="post">
<label>Name</label>
<input type="text" name="fname"><br><br><br>
<label>Permanent Address</label>
<textarea cols="20" rows="3" name="add"></textarea><br><br><br>
<label>City</label>
<input type="text" name="city" ><br><br><br>
```

```
<label>State</label>
<input type="text" name="state"><br><br><br>
<label>Country</label>
<input type="text" name="country"><br><br><br>
<label>Pincode</label>
<input type="text" name="pin"><br><br><br>
<label>Mobile</label>
<input type="number" name="mob"><br><br><br>
<label>Email</label>
<input type="email" name="mail"><br><br><br>
<label>Date of birth </label>
<input type="date" name="dob"><br><br><br>
<center><input type="submit" value="Submit"></center>
</form>
</body>
</html>
```

Output





Experiment No: 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 arrayindexof, search,includes). (Math Functions- round, ceil, floor, trunc, sign, pow, sqrt, abs, sin, cos, min, max, random, log)

Source code

```
<!DOCTYPE html>

<html>

<body align="center" bgcolor="#83c9f2">

<h2>JavaScript String Properties</h2>

---------------------------------------------------------------

<p>The length of " Today is a beautiful day ":</p>

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

<script>
```

```
let text = " Today is a beautiful day ";

document.getElementById("demo").innerHTML = text.length;

</script>

-----------------------------------------------------------------

<p>The slice parts of "January, June, July":</p>

<p id="de"></p>

<script>

let str = "January, June, July";

document.getElementById("de").innerHTML = str.slice(7,13);

</script>

-----------------------------------------------------------------

<p>The substring of "December, May, April":</p>

<p id="dem"></p>

<script>

let str1 = "March, April, October";

document.getElementById("dem").innerHTML = str1.substring(7,13);

</script>

-----------------------------------------------------------------

<p>The substr of "March, April, October":</p>

<p id="demo1"></p>

<script>

let str2 = "Apple, Banana, Kiwi";

document.getElementById("demo1").innerHTML = str2.substr(7,6);

</script>
```

```
-------------------------------------------------------------

<p>Replace "Lilly with Jasmin":</p>

<button onclick="myFunction1()">Try it</button>

<p id="demo2">Lilly is white in color!</p>

<script>

function myFunction1() {

  let text1 = document.getElementById("demo2").innerHTML;

  document.getElementById("demo2").innerHTML =

  text1.replace("Lilly","Jasmin");

}

</script>

-------------------------------------------------------------

<p>Convert Red Rose to upper case:</p>

<button onclick="myFunction2()">Try it</button>

<p id="demo3">Red Rose</p>

<script>

function myFunction2() {

  let text2 = document.getElementById("demo3").innerHTML;

  document.getElementById("demo3").innerHTML =

  text2.toUpperCase();

}

</script>

-------------------------------------------------------------

<p>Convert Red Rose to lower case:</p>
```

```
<button onclick="myFunction3()">Try it</button>

<p id="demo4">Red Rose</p>

<script>

function myFunction3() {

  let text3 = document.getElementById("demo4").innerHTML;

  document.getElementById("demo4").innerHTML =

  text3.toLowerCase();

}

</script>

---------------------------------------------------------------

<p>Concat "Red Rose"</p>

<p id="demo5"></p>

<script>

let text4 = "Red";

let text5 = "Rose";

let text6 = text4.concat(" ",text5);

document.getElementById("demo5").innerHTML = text6;

</script>

---------------------------------------------------------------

<p>Trim "Red Rose"<p>

<p id="demo6"></p>

<script>

let text7 = "     Red Rose    ";

let text8 = text7.trim();
```

```
document.getElementById("demo6").innerHTML =

"Length text7=" + text7.length + "<br>Length8 text8=" + text8.length;

</script>

---------------------------------------------------------------

<p>CharAt "Red Rose"</p>

<p id="demo7"></p>

<script>

var text9 = "RED ROSE";

document.getElementById("demo7").innerHTML = text9.charAt(0);

</script>

---------------------------------------------------------------

<p>Display the first array element, after a string split:</p>

<p id="demo8"></p>

<script>

let text10 = "a,b,c,d,e,f";

const myArray = text10.split(",");

document.getElementById("demo8").innerHTML = myArray[0];

</script>

---------------------------------------------------------------

<p>The indexOf() method returns the position of the first occurrence of a specified
text:</p>

<p id="demo9"></p>

<script>

let str3 = "Please locate where 'locate' occurs!";

document.getElementById("demo9").innerHTML = str3.indexOf("locate");
```

```
</script>

-----------------------------------------------------------------

<p>The search() method returns the position of the first occurrence of a specified text in a string:</p>

<p id="demo10"></p>

<script>

let str4 = "Please locate where 'locate' occurs!";

document.getElementById("demo10").innerHTML = str4.search("locate");

</script>

-----------------------------------------------------------------

<p>Check if a string includes "world":</p>

<p id="demo11"></p>

<p>The includes() method is not supported in Internet Explorer.</p>

<script>

let text11 = "Hello world, welcome to the universe.";

document.getElementById("demo11").innerHTML = text11.includes("world");

</script>

-----------------------------------------------------------------

<h2>Javascript Math Functions</h2>

-----------------------------------------------------------------

<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>

<p id="demo12"></p>

<script>

document.getElementById("demo12").innerHTML = Math.round(4.5);

</script>
```

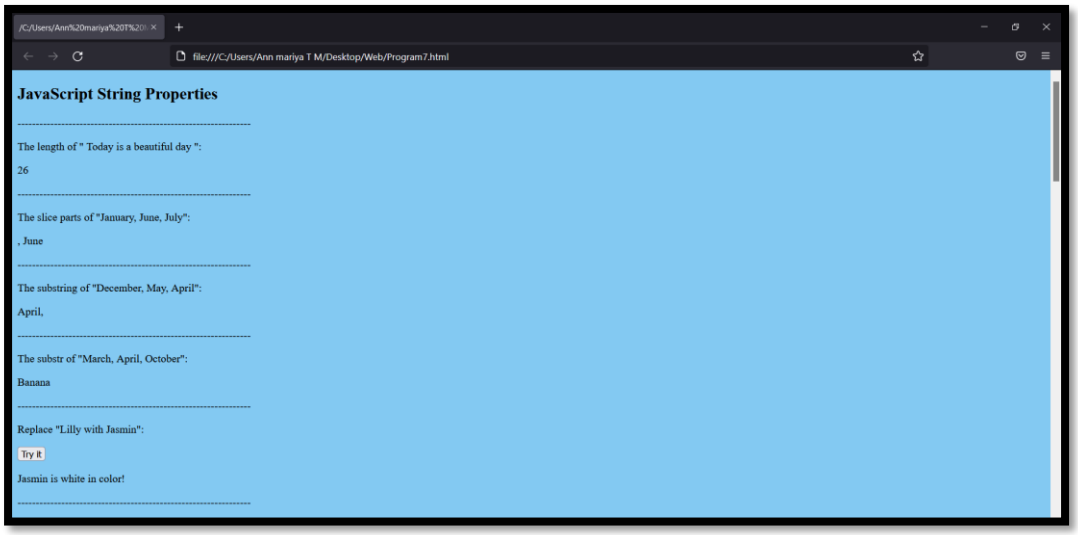
```
---------------------------------------------------------------

<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</p>

<p id="demo13"></p>

<script>

document.getElementById("demo13").innerHTML = Math.ceil(4.4);

</script>

---------------------------------------------------------------

<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to its
nearest integer:</p>

<p id="demo14"></p>

<script>

document.getElementById("demo14").innerHTML = Math.floor(4.7);

</script>

---------------------------------------------------------------

<p>Math.trunc(x) returns the integer part of x:</p>

<p id="demo15"></p>

<script>

document.getElementById("demo15").innerHTML = Math.trunc(4.7);

</script>

---------------------------------------------------------------

<p>Math.sign(x) returns if x is negative, null or positive:</p>

<p id="demo16"></p>

<script>

document.getElementById("demo16").innerHTML = Math.sign(4);

</script>
```

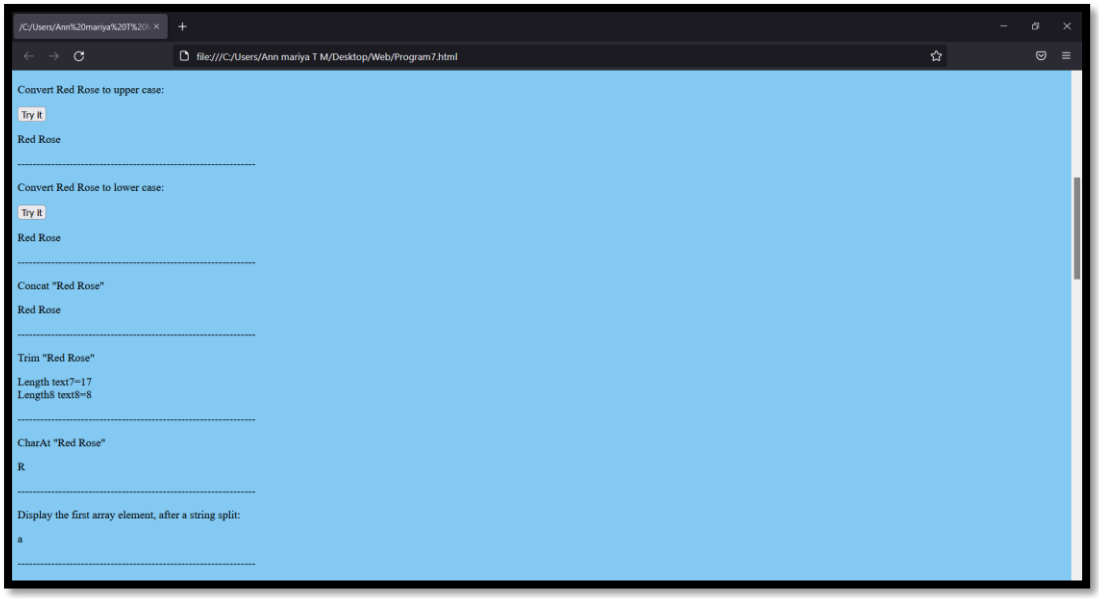
```
-------------------------------------------------------------


<p>Math.pow(x,y) returns the value of x to the power of y:</p>

<p id="demo17"></p>

<script>

document.getElementById("demo17").innerHTML = Math.pow(8,2);

</script>

-------------------------------------------------------------

<p>Math.sqrt(x) returns the square root of x:</p>

<p id="demo18"></p>

<script>

document.getElementById("demo18").innerHTML = Math.sqrt(64);

</script>

-------------------------------------------------------------

<p>Math.abs(x) returns the absolute (positive) value of x:</p>

<p id="demo19"></p>

<script>

document.getElementById("demo19").innerHTML = Math.abs(-4.4);

</script>

-------------------------------------------------------------

<p>Math.sin(x) returns the sin of x (given in radians):</p>

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

<p id="demo20"></p>

<script>
```

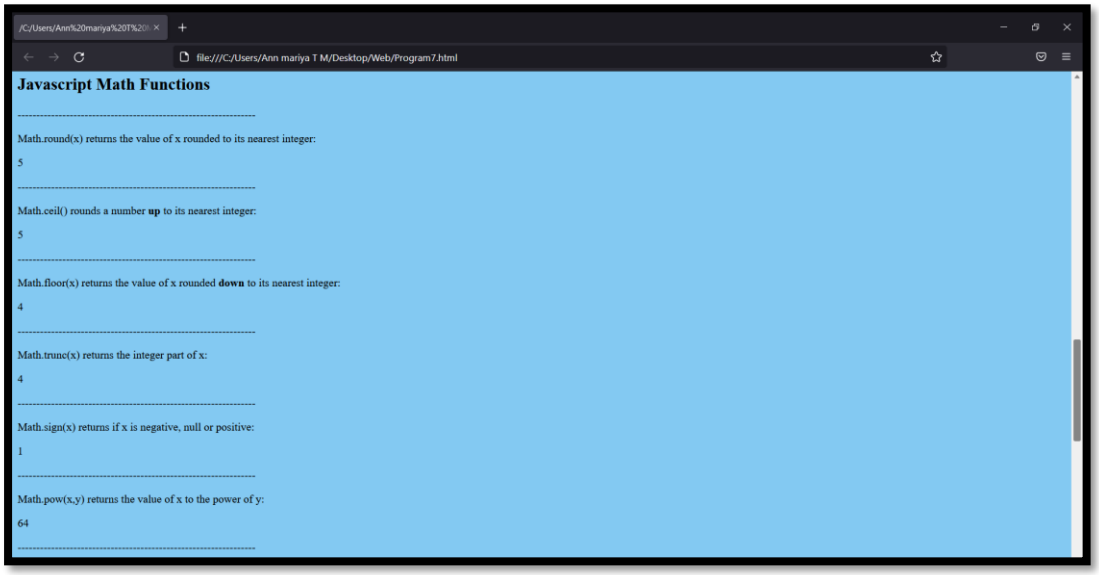
```
document.getElementById("demo20").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
</script>
---------------------------------------------------------------
<p>Math.cos(x) returns the cosine of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo21"></p>
<script>
document.getElementById("demo21").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
</script>
---------------------------------------------------------------
<p>Math.min() returns the lowest value in a list of arguments:</p>
<p id="demo22"></p>
<script>
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
---------------------------------------------------------------
<p>Math.max() returns the highest value in a list of arguments.</p>
<p id="demo23"></p>
<script>
document.getElementById("demo23").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
```

```
</script>

-----------------------------------------------------------------

<p>Math.random() returns a random number between 0 and 1:</p>

<p id="demo24"></p>

<script>

document.getElementById("demo24").innerHTML = Math.random();

</script>

-----------------------------------------------------------------

<p>Math.log() returns the natural logarithm of a number:</p>

<p id="demo25"></p>

<script>

document.getElementById("demo25").innerHTML = Math.log(1);

</script>

-----------------------------------------------------------------

</body>

</html>
```

Output




file:///C:/Users/Ann mariya T M/Desktop/Web/Program7.html
Convert Red Rose to upper case:
Try it
Red Rose
Convert Red Rose to lower case:
Try it
Red Rose
Concat "Red Rose"
Red Rose
Trim "Red Rose"
Length text7=17
Length8 text8=8
CharAt "Red Rose"
R
Display the first array element, after a string split:
a


file:///C:/Users/Ann mariya T M/Desktop/Web/Program7.html
Javascript Math Functions
Math.round(x) returns the value of x rounded to its nearest integer:
5
Math.ceil() rounds a number up to its nearest integer:
5
Math.floor(x) returns the value of x rounded down to its nearest integer:
4
Math.trunc(x) returns the integer part of x:
4
Math.sign(x) returns if x is negative, null or positive:
1
Math.pow(x,y) returns the value of x to the power of y:
64

Experiment No:8

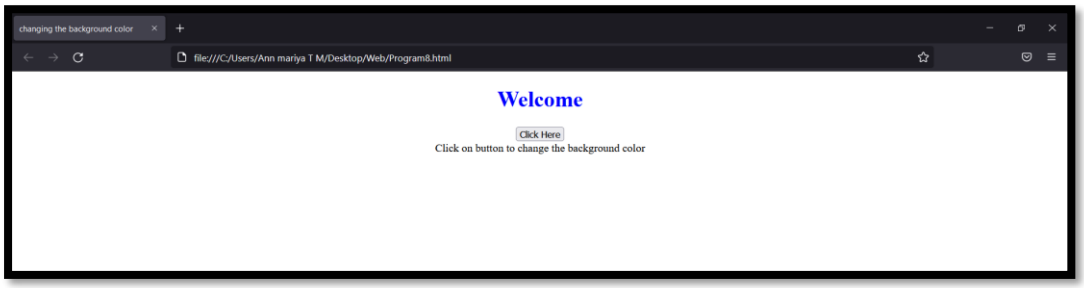
Aim: Create a HTML page to change the background color for every click of a button using JavaScript Event Handling.

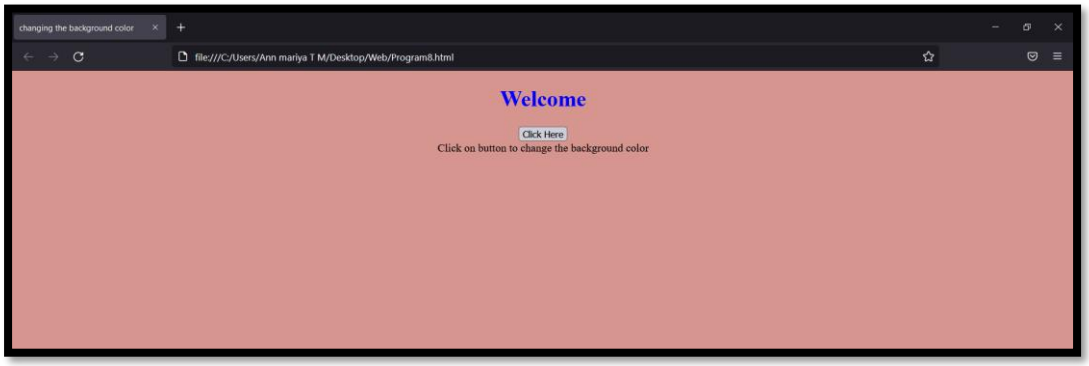
Source code

```
<!DOCTYPE HTML>
<html>
<head>
<title>
changing the background color
</title>
</head>
<body style = "text-align:center;">
<h1 style = "color:blue;" >
Welcome
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here
</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





Experiment No:9

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

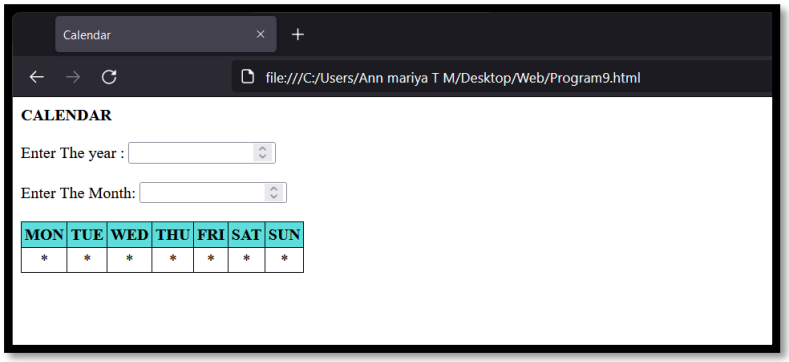
Source code

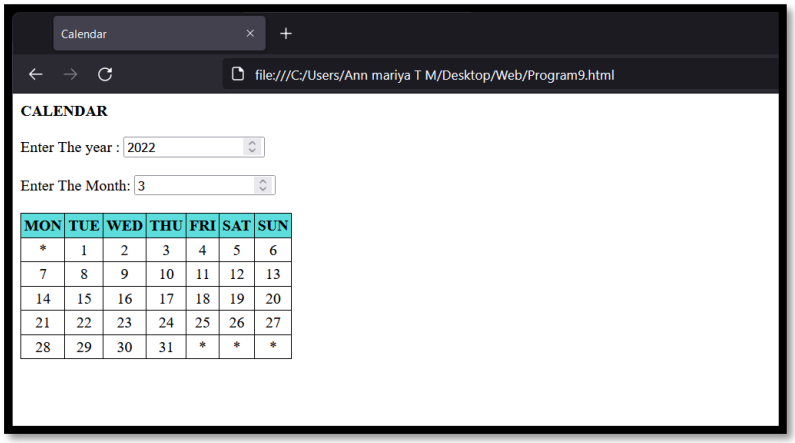
```
<!DOCTYPE HTML>
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
}
th {
font-weight: bold;
background-color: #5ddedc;
}
</style></head>
<body>
<b>CALENDAR</b><br><br>
Enter The year : <input type="number" name="cal" id="cal" /><br><br>
Enter The Month: <input type="number" name="month" id="month" /><br><br>
```

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

<script>

var year = document.getElementById("cal").value;

var month = document.getElementById("month").value;

function getDay(date) {

let day = date.getDay();

if (day == 0) day = 7;

return day - 1;

}

function createCalendar(elem, 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>';

elem.innerHTML = table;

}

createCalendar(calendar, year, month);

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

Output





Experiment No:10

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

Source code

Electricity.html

```
<html>
 <head><title>Electricity bill</title></head>
 <body>
 <form name="bill" action="bill.php" method="post">
 <h1>ELECTRICITY BILL<hr></h1>
 Consumer Number: <input type="number" name="cno"><br><br>
 Customer name: <input type="text" name="uname"><br><br>
 Unit: <input type="number" name="unit"><br><br>
 <input type="submit" value="Submit">
 </form>
 </body>
 </html>
```

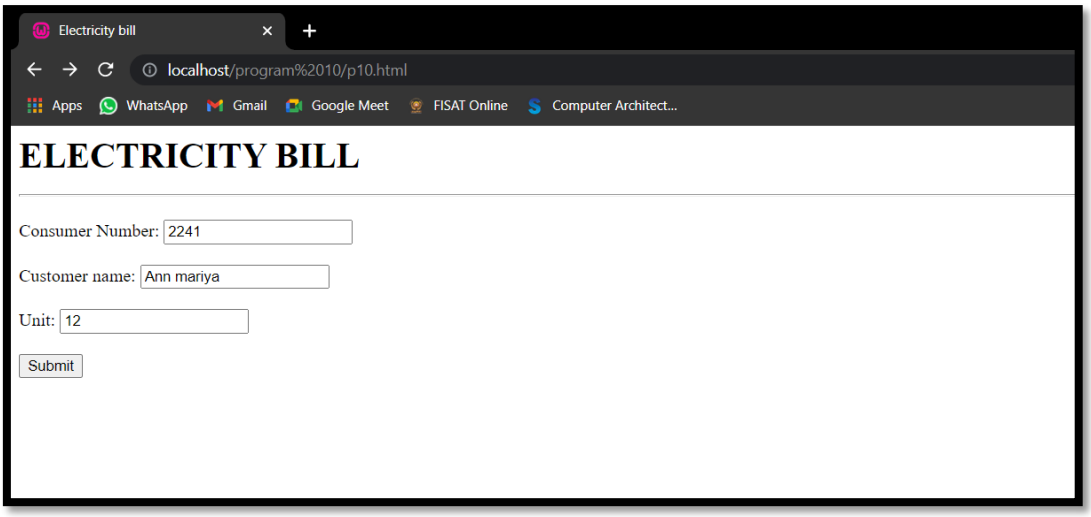
Bill.php

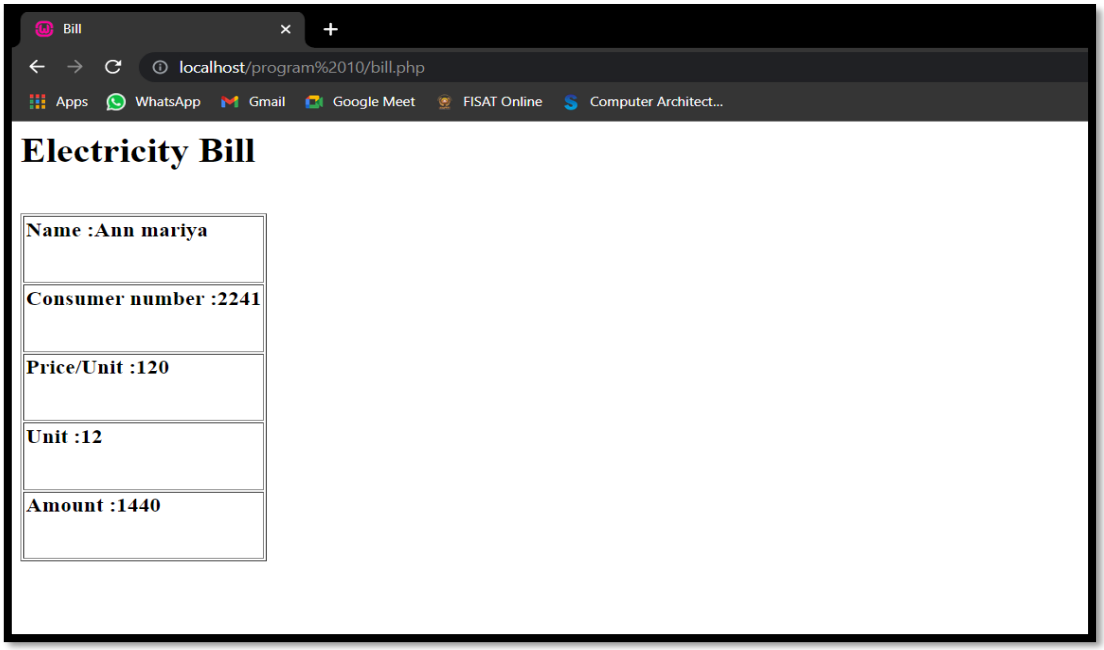
```
<html>
 <head><title>Bill</title></head>
 <body>
  <h1>Electricity Bill</h1><br>
  <table border="1">
  <tr>
```

```
<td>
<h3>Name :<?php echo $_POST["uname"];?></h3><br>
</td>
</tr>
<tr>
<td>
<h3>Consumer number :<?php echo $_POST["cno"];?></h3><br>
</td>
</tr>
<tr>
<td>
<h3>Price/Unit :<?php $p=4; echo $p;?></h3><br>
</td>
</tr>
<tr>
<td>
<h3>Unit :<?php echo $_POST["unit"];?></h3><br>
</td>
</tr>
<tr>
<td>
<h3>Amount :<?php echo $_POST["unit"]*4;?></h3><br>
</td>
</tr>
```

```
</table>

</body>

</html>
```

Output





Experiment No:11

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

Source code

P11.html

```
<!DOCTYPE html>
<html>
<body>
<h2>Students Name: </h2>
<?php
$a = array("Angel"=>"34", "Ann"=>"35", "Sree"=>"23","Anz"=>"11","Anju"=>"9");
print_r($a);
echo "<h2>Ascending Order</h2>";
echo "\n";
asort($a);
foreach($a as $x=>$x_value)
 {
 echo "Key=" . $x . ", Value=" . $x_value;
 echo "<br>";
 }
echo "\n";
echo "<h2>Descending Order</h2>";
echo "\n";
arsort($a);
foreach($a as $x=>$x_value)
```

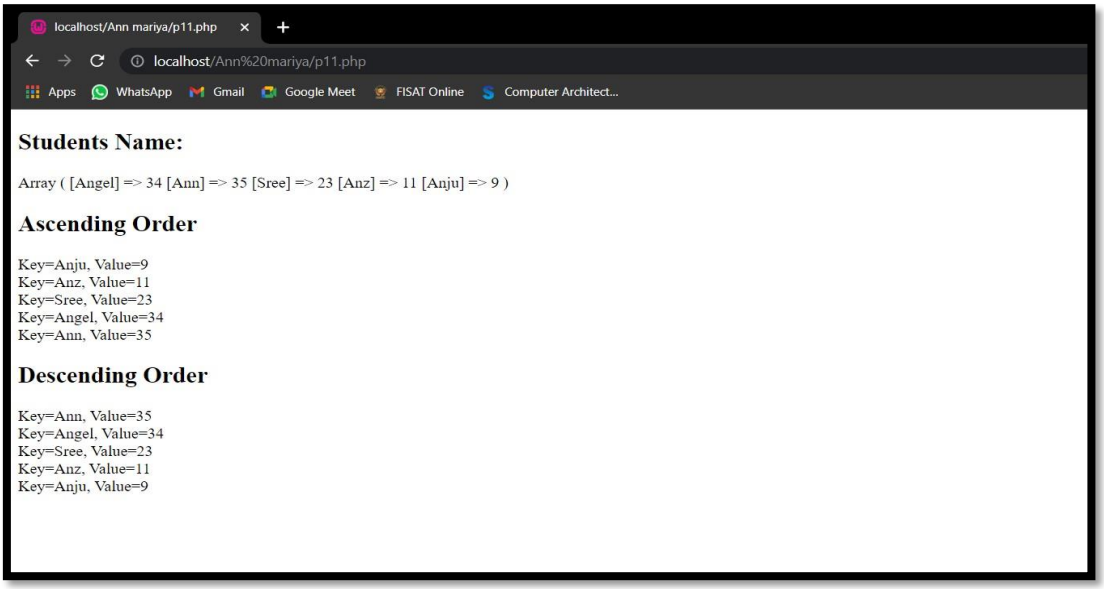
```
 {
 echo "Key=" . $x . ", Value=" . $x_value;
 echo "<br>";
 }
?>
</html>
```

P11.php

```
<!DOCTYPE html>
<html>
<body>
<h2>Students Name: </h2>
<?php
$a = array("Angel"=>"34", "Ann"=>"35", "Sree"=>"23","Anz"=>"11","Anju"=>"9");
print_r($a);
echo "<h2>Ascending Order</h2>";
echo "\n";
asort($a);
foreach($a as $x=>$x_value)
 {
 echo "Key=" . $x . ", Value=" . $x_value;
 echo "<br>";
 }
echo "\n";
echo "<h2>Descending Order</h2>";
```

```
echo "\n";

arsort($a);

foreach($a as $x=>$x_value)

 {

 echo "Key=" . $x . ", Value=" . $x_value;

 echo "<br>";

 }

?>

</html>
```

Output



Experiment No:12

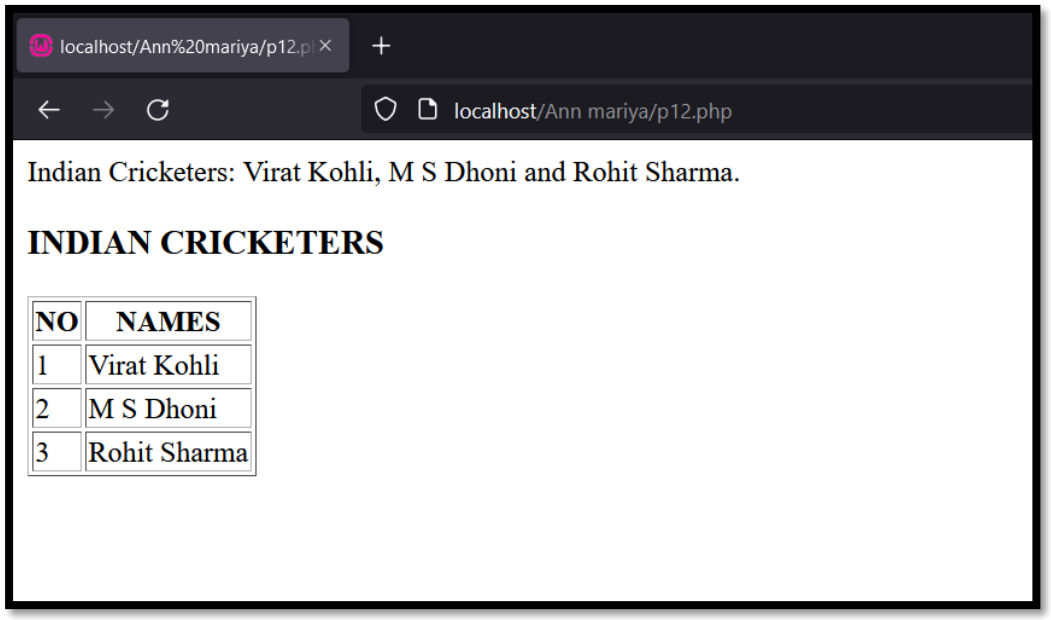
Aim: Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

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



Experiment No: 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

Book_info.html

```
<html>
<head>
<title>book</title>
</head>
<body align="center"><u>BOOK INFORMATION SYSTEM</u><br><br>
<a href="add_book.html">Add Book</a><br><br>
<a href="search.html">Search Book</a><br><br>
</body>
</html>
```

Add_book.html

```
<html><head>
<title>add book</title>
<style>
     label {
       display: inline-block;
       width: 300px;
     }
   </style
</head>
<body>
<form name="frm1" action="addl.php" method="POST">
<b><u>Enter Book Details</u></b><br><br>
<label>Accession Number</label>
```

```
<input type="text" name="num"><br><br>
<label>Title:</label><input type="text" name="tit"><br><br>
<label>Author:</label><input type="text" name="author"><br><br>
<label>Edition:</label><input type="text" name="edi"><br><br>
<label>Publisher:</label><input type="text" name="pub"><br><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

Addl.php

```
<?php
$num=$_POST['num'];
$tit=$_POST['tit'];
$author=$_POST['author'];
$edi=$_POST['edi'];
$pub=$_POST['pub'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
}
$sql="INSERT INTO book28 VALUES($num,'$tit','$author','$edi','$pub')";
if($con->query($sql))
{
echo "<BR>";
```

```
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

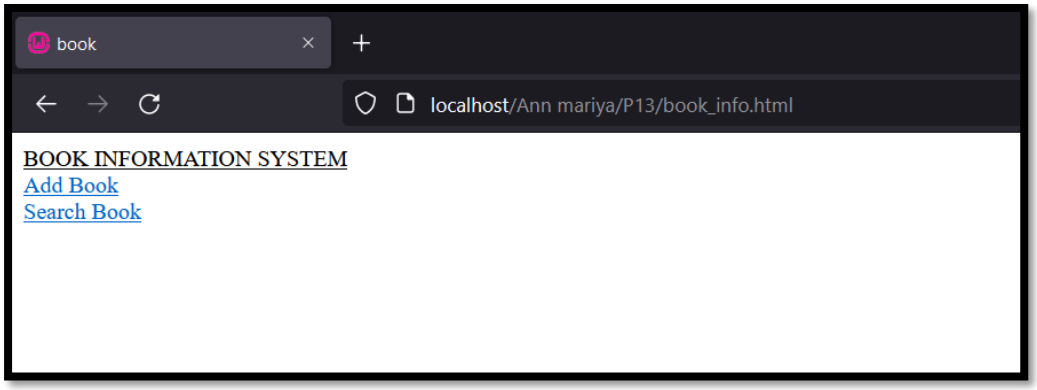
Search.html

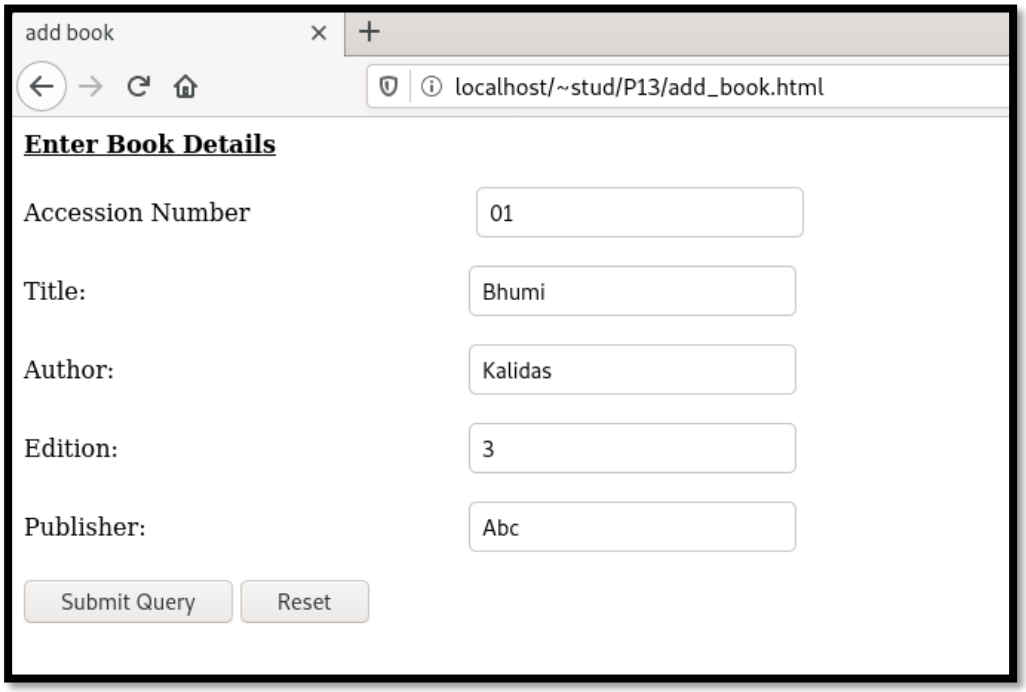
```
<html>
<head>
<title>search</title>
<style>
     label {
       display: inline-block;
       width: 300px;
     }
   </style
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH A BOOK</u></b><br><br>
<label>Enter book title:</label>
<input type="text" name="txt"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

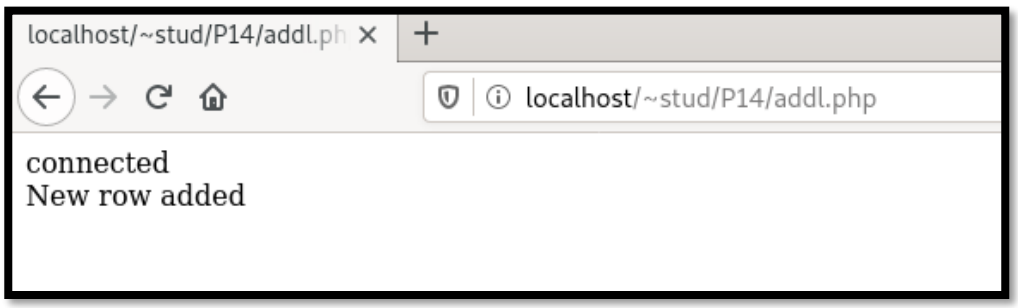
Searchl.php

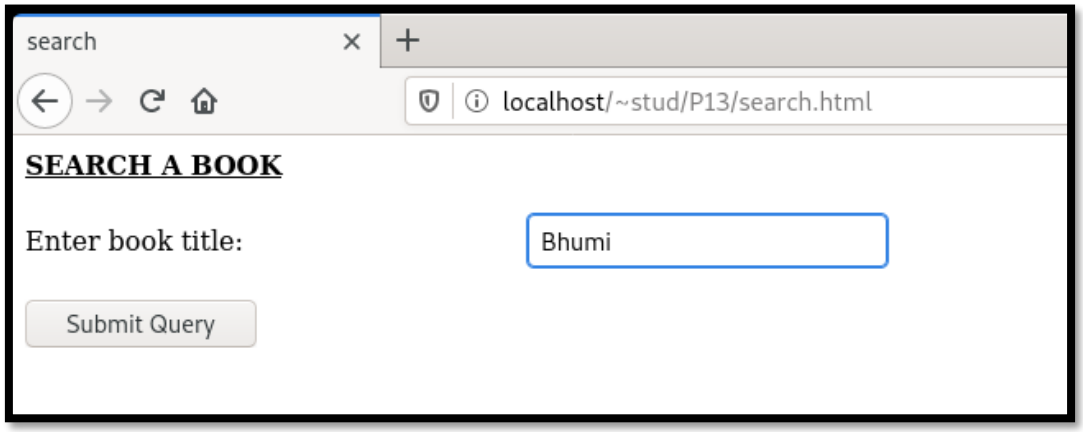
```
<?php
$title=$_POST['txt'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from book28 where Title='$title'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
  $row[4]."\n";}
$result->close();
}
else
{
echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

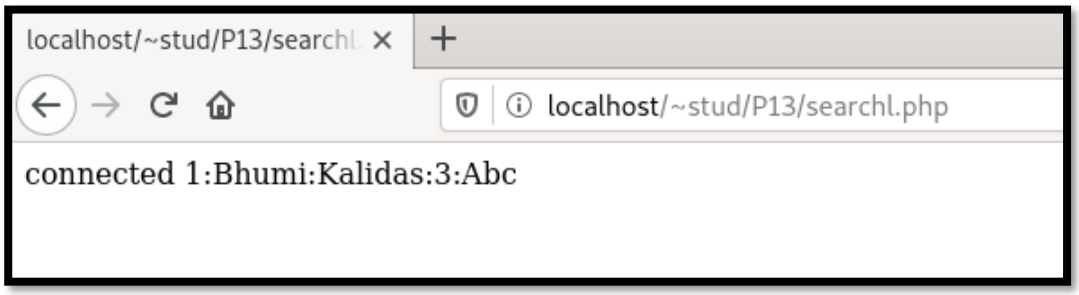
Output


book
localhost/Ann mariya/P13/book_info.html
BOOK INFORMATION SYSTEM
Add Book
Search Book


add book
localhost/~stud/P13/add_book.html
Enter Book Details
Accession Number
01
Title:
Bhumi
Author:
Kalidas
Edition:
3
Publisher:
Abc
Submit Query
Reset


localhost/~stud/P14/addl.ph
localhost/~stud/P14/addl.php
connected
New row added


search
localhost/~stud/P13/search.html
SEARCH A BOOK
Enter book title:
Bhumi
Submit Query


localhost/~stud/P13/searchl
localhost/~stud/P13/searchl.php
connected 1:Bhumi:Kalidas:3:Abc

Experiment No: 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>
```

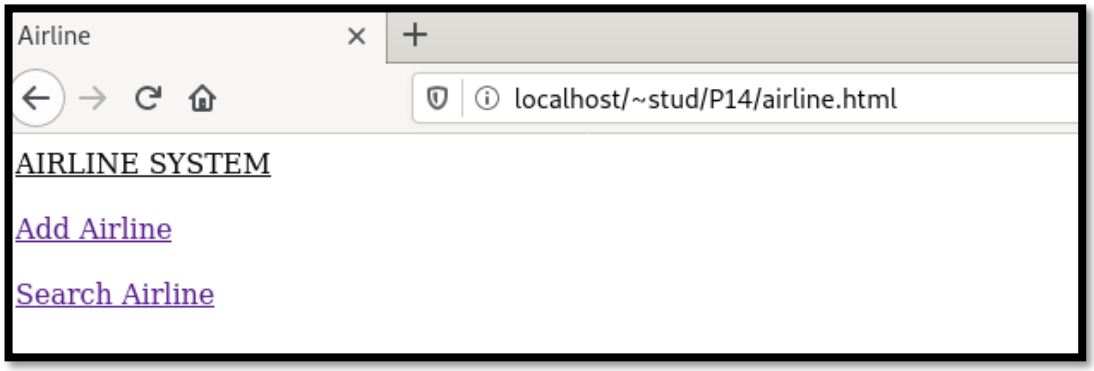
Searchl.php

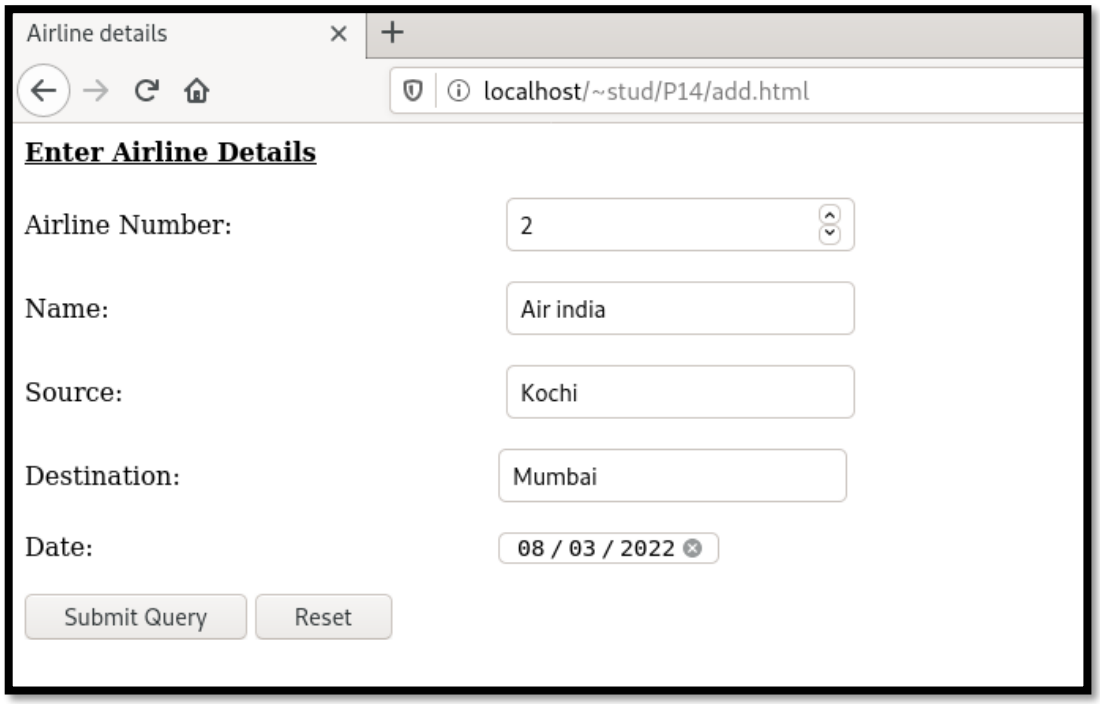
```
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
```

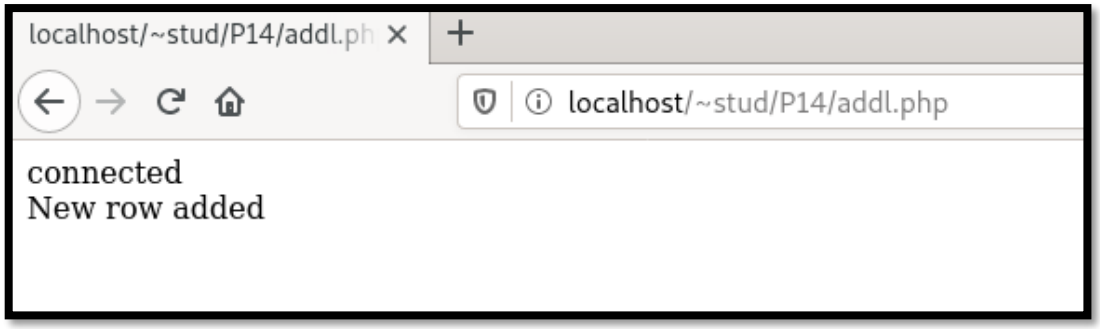
```
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline028 where Source='$src' and Destination='$dstn'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
   $row[4]."\n\n";}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

```
}

$con->close();

?>
```

Output







```
MariaDB [fisatdb]> select * from airline028;
+----------------+------+-----------+-------------+------------+
| Airline_number | Name | Source    | Destination | Date       |
+----------------+------+-----------+-------------+------------+
|             16 | ABC  | TVM       | Pune        | 2022-02-28 |
|             23 | ahc  | Kozhikode | Tvm         | 2022-03-30 |
|             12 | xyz  | Kochi     | Mumbai      | 2022-03-13 |
|             23 | qwe  | UK        | India       | 2022-03-16 |
+----------------+------+-----------+-------------+------------+
4 rows in set (0.000 sec)
```