FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

Name: **ABHINAND H**

Branch: **MASTER OF COMPUTER APPLICATION**

Semester: **1** **Batch: 2021 A** **Roll No: 02**

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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'FOCUS ON EXCELLENCE'

Name : ABHINAND H

Branch : MASTER OF COMPUTER APPLICATIONS

Semester : 1 **Roll No: 02**

University Exam.Reg. No: FIT21MCA-2002

CERTIFICATE

Certified that this is the Bonafide record of the Practical work done by Mr. **ABHINAND H(FIT21MCA-2002)** in the **20MCA133- WEB PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022.

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

Name: — Name:

Date:

Date of University practical examination ……

Signature of Internal Examiner — Signature of External Examiner

CONTENT

11	**10/1/2022**	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.		
12	**10/1/2022**	Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.		
13	**2/3/2022**	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		
14	**2/3/2022**	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.		

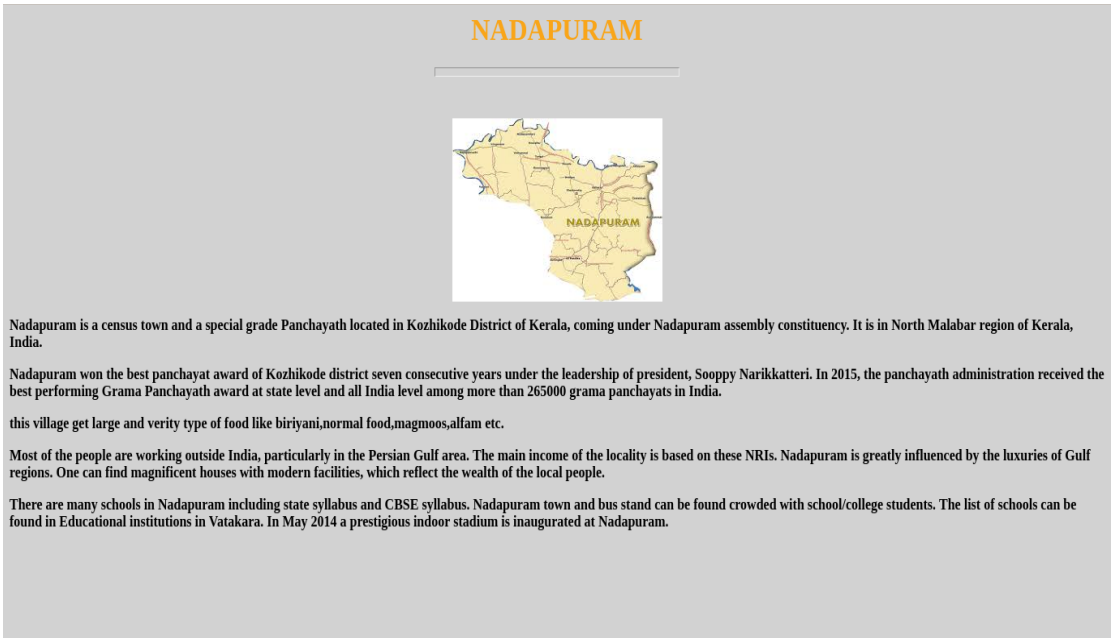
AIM

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

PROGRAM CODE

```
<html>
<head><title>nadapuram</title>
<body bgcolor="lightgray" align="center">
<h1><center><font color="orange"><b>NADAPURAM<b></font></h1>
<hr align="center" width="300" size="10" noshde><br>
<br><img  src="/home/ccf/Downloads/images.jpeg" >
<p align="left">Nadapuram is a census town and a special grade Panchayath located in Kozhikode District of Kerala, coming under Nadapuram assembly constituency. It is in North Malabar region of Kerala, India.</p>
 <p align="left">Nadapuram won the best panchayat award of Kozhikode district seven consecutive years under the leadership of president, Sooppy Narikkatteri. In 2015, the panchayath administration received the best performing Grama Panchayath award at state level and all India level among more than 265000 grama panchayats in India.</p>
<p align="left">this village get large and verity type of food like biriyani,normal food,magmoos,alfam etc.</p>
<p align="left">Most of the people are working outside India, particularly in the Persian Gulf area. The main income of the locality is based on these NRIs. Nadapuram is greatly influenced by the luxuries of Gulf regions. One can find magnificent houses with modern facilities, which reflect the wealth of the local people. </p>
<p align="left">There are many schools in Nadapuram including state syllabus and CBSE syllabus. Nadapuram town and bus stand can be found crowded with school/college students. The list of schools can be found in Educational institutions in Vatakara. In May 2014 a prestigious indoor stadium is inaugurated at Nadapuram.</p>
</body>
</html>
```

OUTPUT



AIM

2.Create your biodata which contain multiple pages (include images , tables, and also link within a page).

PROGRAM CODE

```
<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="grey">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center><img src="png-clipart-avatar-youtube-8-ball-pool-user-avatar-child-
face.png" width="100"
height="100"></center><br>
<p><b><u><center><font color="black">Personal
details</u></center></b></p></font>
<table border="1" width="600" align="center" bgcolor="yellow">
```

```
<tr>
<th>Name</th>
<td>Anil Kurian</td>
</tr>
<tr>
<th>Father Name</th>
<td>N T Kurian </td>
</tr>
<tr>
<th>Mother Name</th>
<td>Saramma Kurian</td>
</tr>
<tr>
<th>Date of Birth</th>
<td>06/04/2001</td>
</tr>
</table>
<br><br>
<center>For Qualification details</centers><br><a
href="file:///home/stud/Anil/prg2b.html">Click here </a>
</body>
</html>
```

Qualification code:

```
<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="grey">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center><img src="png-clipart-avatar-youtube-8-ball-pool-user-avatar-child-
face.png" width="100"
height="100"></center><br>
```

```
<p><b><u><center><font
color="black">Qualifications</u></center></b></p></font>
<table border="1" width="600" align="center" bgcolor="yellow">
<tr>
<th>Name</th>
<td>Anil Kurian</td>
</tr>
<tr>
<th>10th Percentage</th>
<td>90%</td>
</tr>
<tr>
<th>+2 Percentage</th>
<td>86%</td>
</tr>
<tr>
<th>Degree Percentage</th>
<td>71.20%</td>
</tr>
</table><br><br>
<center>For Contact details<br>
<a href="file:///home/stud/Anil/prg2c.html">Click Here </a></center>
</body>
</html>
```

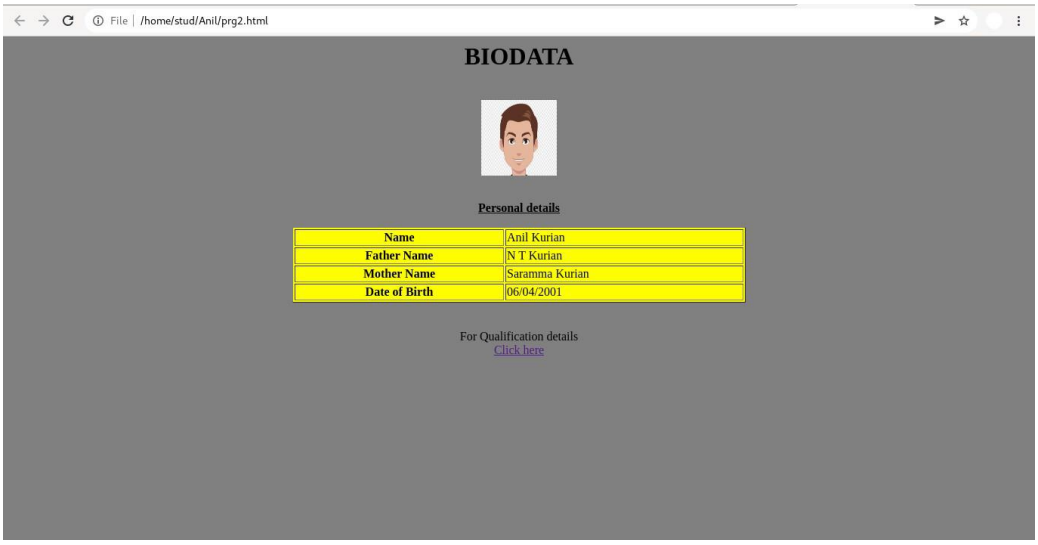
Contact details code:

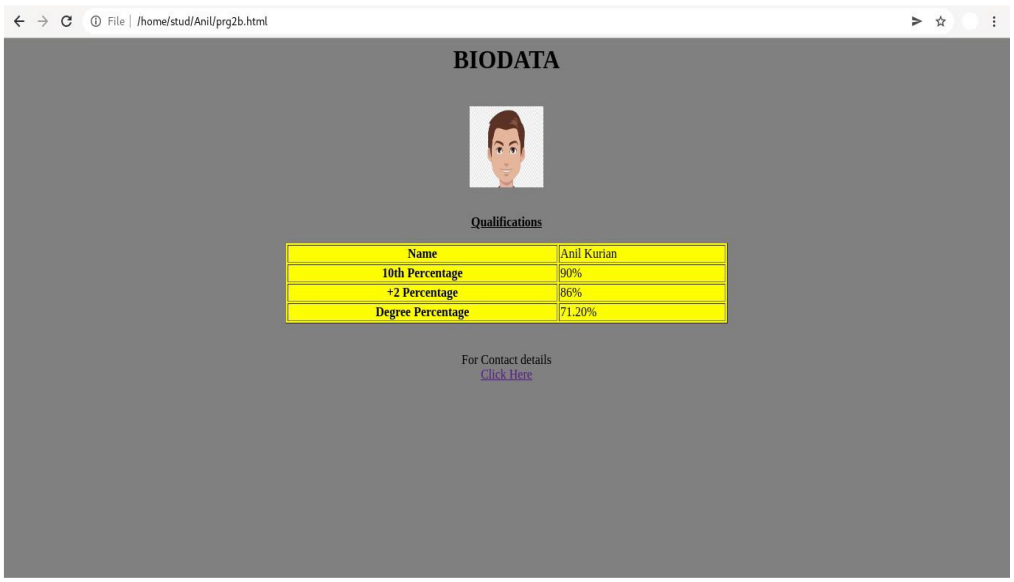
```
<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="grey">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center><img src="png-clipart-avatar-youtube-8-ball-pool-user-avatar-child-
face.png" width="100"
```

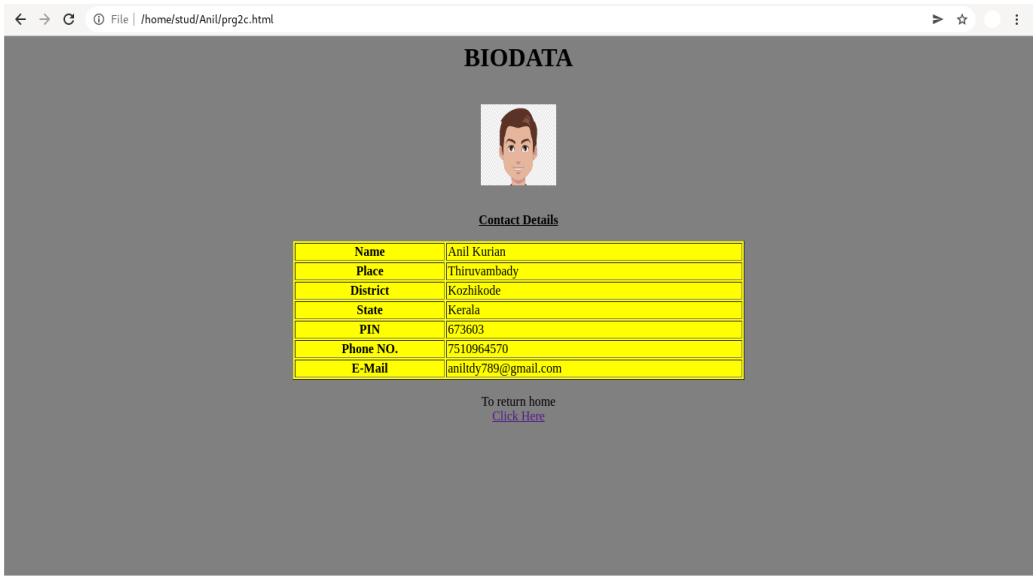
```
height="100"></center><br>
<p><b><u><center><font color="black">Contact
Details</u></center></b></p></font>
<table border="1" width="600" align="center" bgcolor="yellow">
<tr>
<th>Name</th>
<td>Anil Kurian</td>
</tr>
<tr>
<th>Place</th>
<td>Thiruvambady </td>
</tr>
<tr>
<th>District</th>
<td>Kozhikode</td>
</tr>
<tr>
<th>State</th>
<td>Kerala</td>
</tr>
<tr>
<th>PIN</th>
<td>673603</td>
</tr>
<tr>
<th>Phone NO.</th>
<td>7510964570</td>
</tr>
<tr>
<th>E-Mail</th>
<td>aniltdy789@gmail.com</td>
</tr>
</table><br>
<center>To return home<br>
```

```
<a href="file:///home/stud/Anil/prg2.html">Click Here </a></center></center>
</body>
</html>
```

OUTPUT







AIM

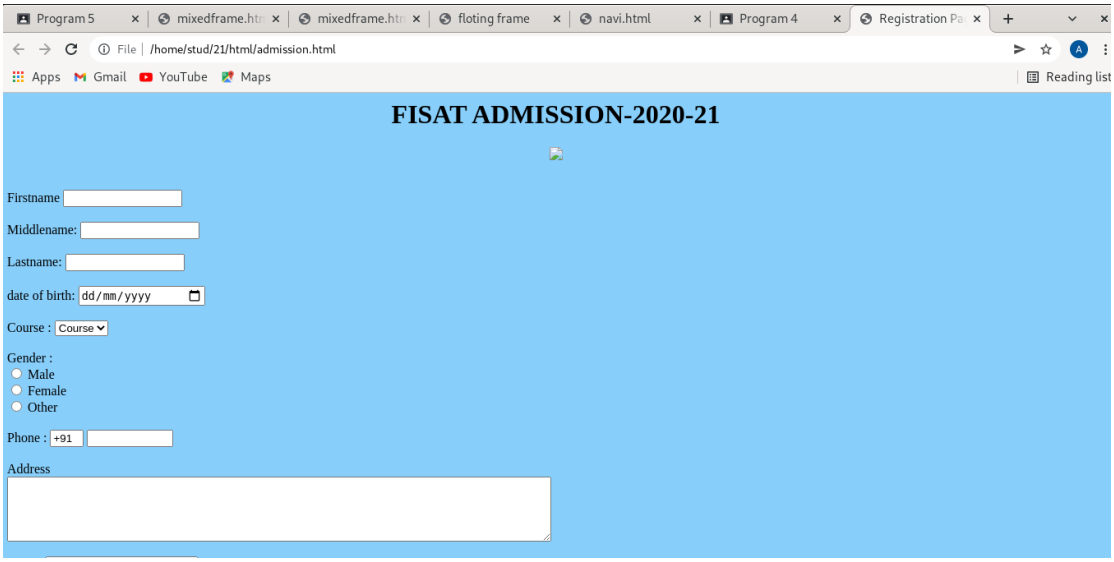
3.Create an application form for MCA course in FISAT.

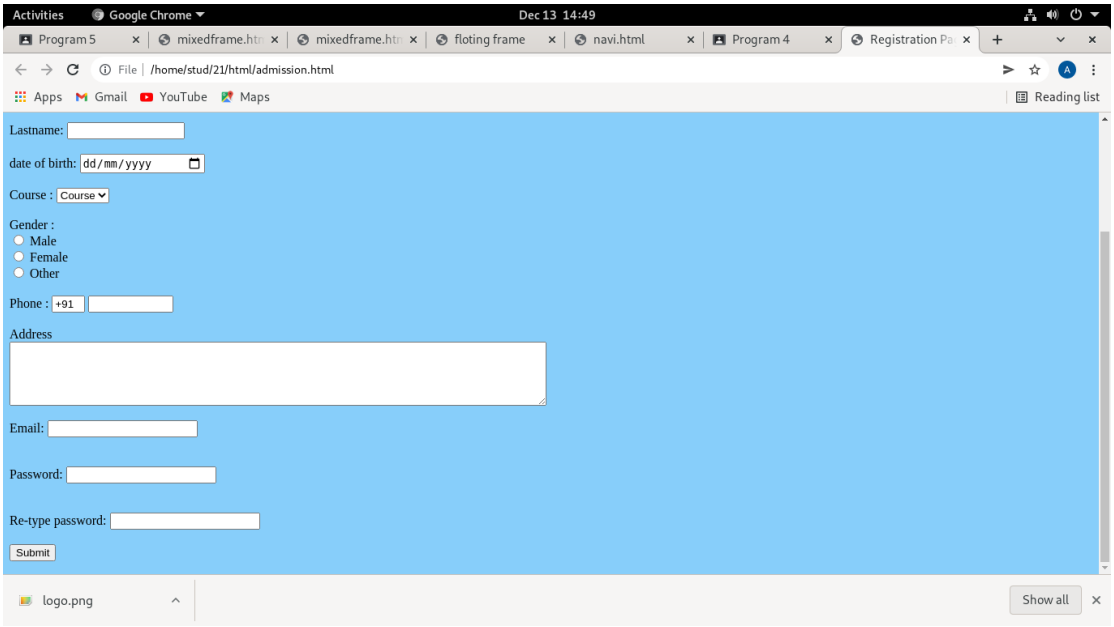
PROGRAM CODE

```
<Html>
<head>
<title>
Registration Page
</title>
</head>
<body bgcolor="Lightskyblue"><center> <h1>
FISAT ADMISSION-2020-21 </h1>
<img src="logo.png">
</center>
<br>
<br>
<form>
<label> Firstname </label>
<input type="text" name="firstname" size="15"/> <br> <br>
<label> Middlename: </label>
<input type="text" name="middlename" size="15"/> <br> <br>
<label> Lastname: </label>
<input type="text" name="lastname" size="15"/> <br> <br>
<label> date of birth: </label>
<input type="date" name="date"><br><br>
<label>
Course :
</label>
<select>
<option value="Course">Course</option>
```

```
<option value="B.Tech">B.Tech</option>
<option value="MBA">MBA</option>
<option value="MCA">MCA</option>
<option value="M.Tech">M.Tech</option>
</select>

<br>
<br>
<label>
Gender :
</label><br>
<input type="radio" name="male"/> Male <br>
<input type="radio" name="male"/> Female <br>
<input type="radio" name="male"/> Other
<br>
<br>

<label>
Phone :
</label>
<input type="text" name="country code"  value="+91" size="2"/>
<input type="text" name="phone" size="10"/> <br> <br>
Address
<br>
<textarea cols="80" rows="5" value="address">
</textarea>
<br> <br>
Email:
<input type="email" id="email" name="email"/> <br>
<br> <br>
Password:
<input type="Password" id="pass" name="pass"> <br>
<br> <br>
Re-type password:
<input type="Password" id="repass" name="repass"> <br> <br>
<input type="button" value="Submit"/>
</form>
</body>
</html>
```

OUTPUT


Program 5
mixedframe.htr
mixedframe.htr
floting frame
navi.html
Program 4
Registration Pa
File | /home/stud/21/html/admission.html
Apps
Gmail
YouTube
Maps
Reading list
FISAT ADMISSION-2020-21
Firstname
Middlename:
Lastname:
date of birth:
dd/mm/yyyy
Course :
Course
Gender :
Male
Female
Other
Phone :
+91
Address


Activities
Google Chrome
Dec 13 14:49
Program 5
mixedframe.htr
mixedframe.htr
floting frame
navi.html
Program 4
Registration Pa
File | /home/stud/21/html/admission.html
Apps
Gmail
YouTube
Maps
Reading list
Lastname:
date of birth:
dd/mm/yyyy
Course :
Course
Gender :
Male
Female
Other
Phone :
+91
Address
Email:
Password:
Re-type password:
Submit
logo.png
Show all

AIM

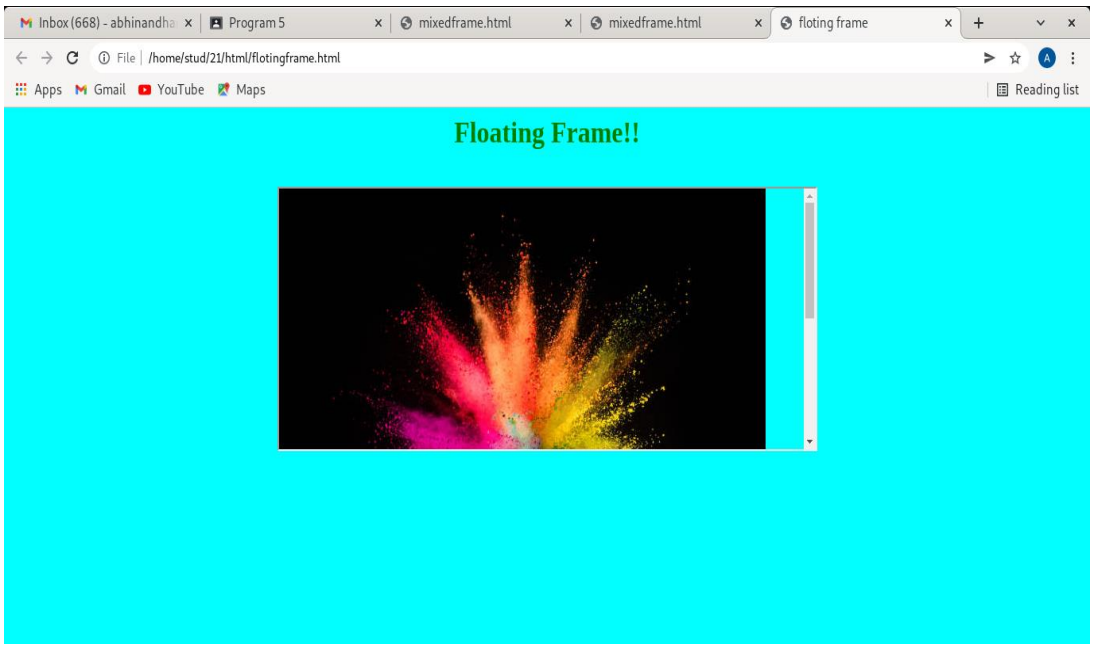
4.Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.

PROGRAM CODE

floting frame

```
<html>
<head>
<title>floting frame</title>
</head>
<body style="background-color:cyan"><center>
<font color="green">
<h1>Floating Frame!!</h1><br>
<iframe src="a1.jpg" height="50%" width="50%">
</iframe>
</html>
```

OUTPUT

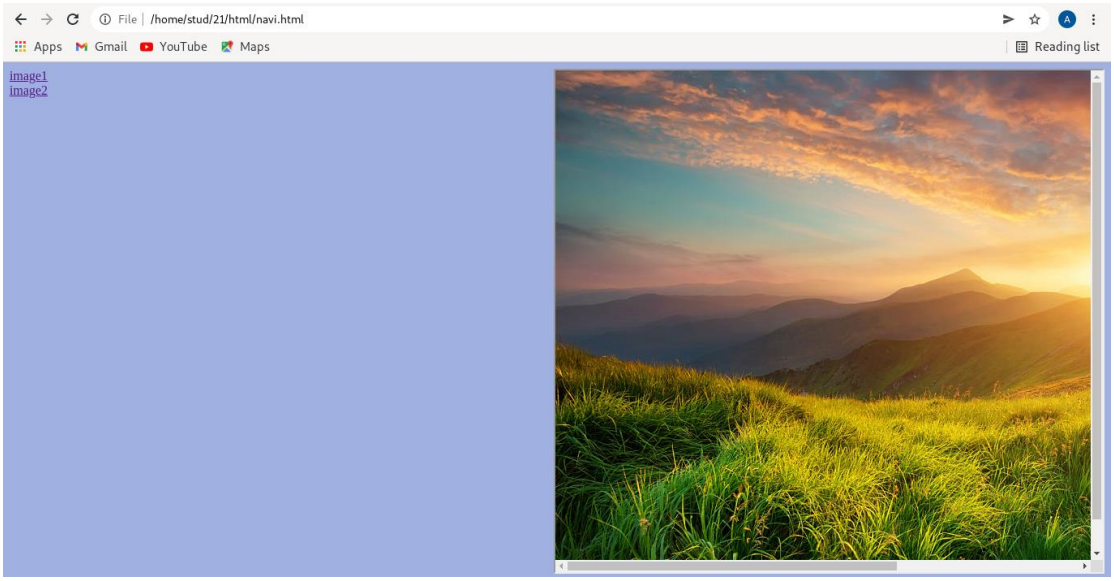


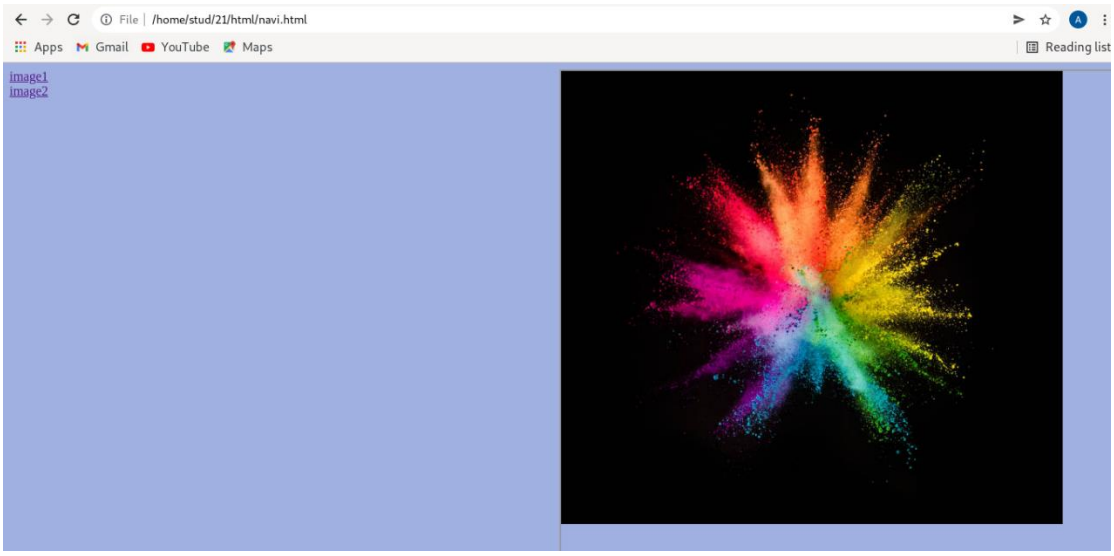
navigationframe

```
<html>
<head><title></title>
</head>
<body bgcolor="naviblue">
```

```
<iframe src="sample2.html" name=x align=right height="100%" width="50%">
</iframe>
<a href="a3.jpg" target=x name=sample>image1</a><br>
<a href="a1.jpg" target=x name=sample2>image2</a>
</body>
</html>
```

OUTPUT



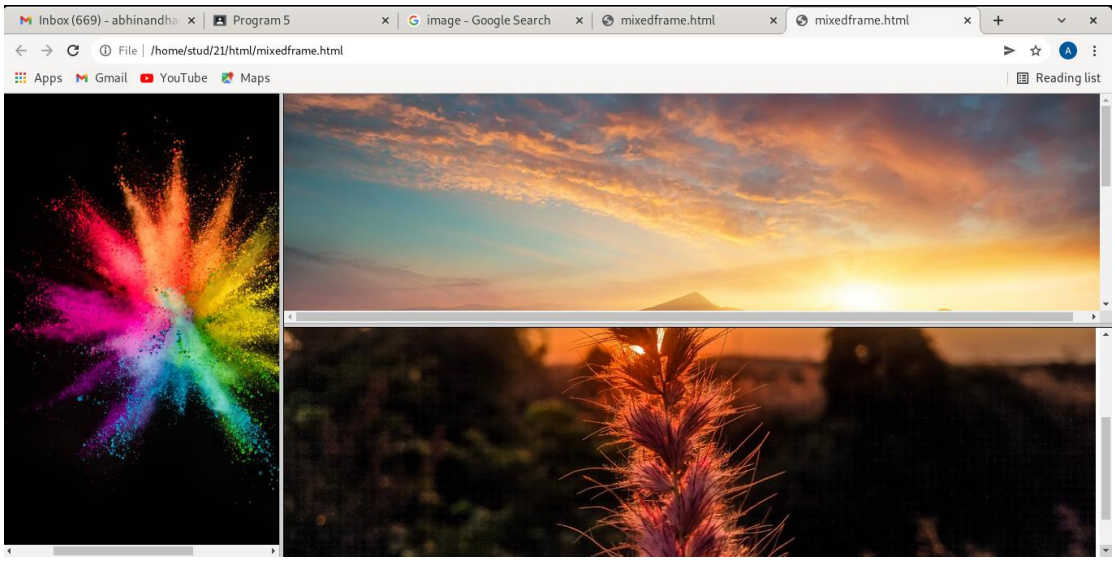


MIXED FRAME

```
<html>
<frameset cols="25%,*" scrolling="no" noresize>
<frame name="image1" src="a1.jpg"></frame>
<frameset rows="50%,*" scrolling="no" noresize>
<frame name="image2" src="a3.jpg"></frame>
```

```
<frame name="image3" src="a2.jpeg"></frame>
</frameset>
</html>
```

OUTPUT



AIM

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

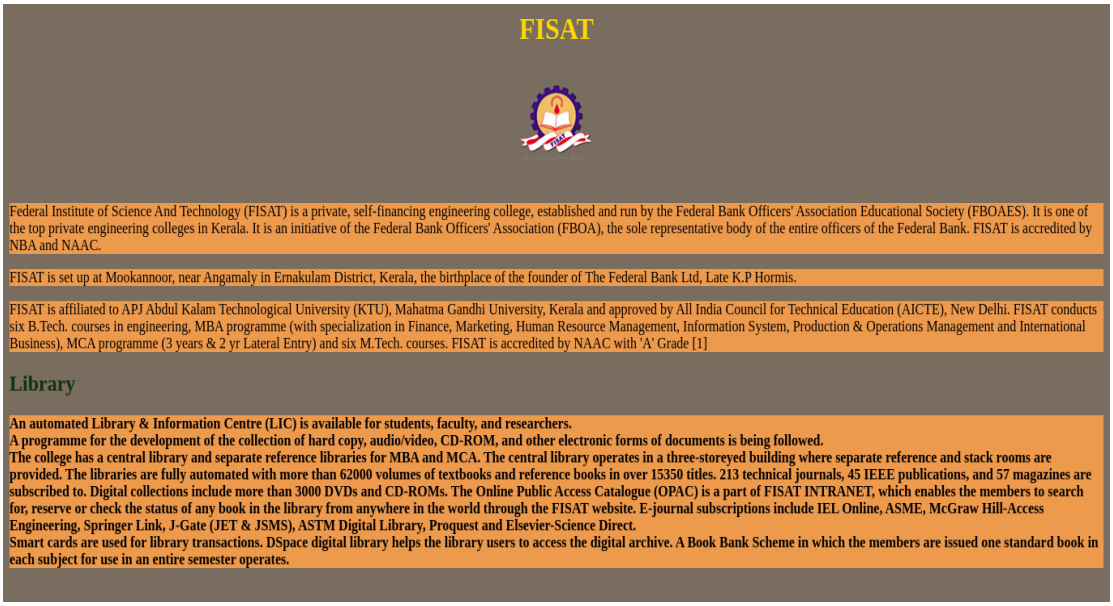
PROGRAM CODE

INTERNAL CSS

```
<html>
<head>
<style>
body {background-color: 786D5F;}
h1   {color:gold;}
p    {color: black;}
p    {border: burzna;}
p    {background-color: #EE9A4D ;}
b    {fornt:areal}
h2   {color:#131;}

</style>
</head>
<body>
```

```
<center><h1>FISAT</h1></center>
<center><img src=/home/stud/Downloads/logo.png  ></center>
<p>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). It is one of the top private engineering colleges in Kerala. It is an initiative of the Federal Bank Officers' Association (FBOA), the sole representative body of the entire officers of the Federal Bank. FISAT is accredited by NBA and NAAC.</p>

<p>FISAT is set up at Mookannoor, near Angamaly in Ernakulam District, Kerala, the birthplace of the founder of The Federal Bank Ltd, Late K.P Hormis.</p>

<p>FISAT is affiliated to APJ Abdul Kalam Technological University (KTU), Mahatma Gandhi University, 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 (3 years & 2 yr Lateral Entry) and six M.Tech. courses. FISAT is accredited by NAAC with 'A' Grade [1]</p>

<h2>Library</h2>
<p><b>An automated Library & Information Centre (LIC) is available for students, faculty, and researchers.<br>

A programme for the development of the collection of hard copy, audio/video, CD-ROM, and other electronic forms of documents is being followed.</br>

The college has a central library and separate reference libraries for MBA and MCA. The central library operates in a three-storeyed building where separate reference and stack rooms are provided. The libraries are fully automated with more than 62000 volumes of textbooks and reference books in over 15350 titles. 213 technical journals, 45 IEEE publications, and 57 magazines are subscribed to. Digital collections include more than 3000 DVDs and CD-ROMs. The Online Public Access Catalogue (OPAC) is a part of FISAT INTRANET, which enables the members to search for, reserve or check the status of any book in the library from anywhere in the world through the FISAT website. E-journal subscriptions include IEL Online, ASME, McGraw Hill-Access Engineering, Springer Link, J-Gate (JET & JSMS), ASTM Digital Library, Proquest and Elsevier-Science Direct.<br>

Smart cards are used for library transactions. DSpace digital library helps the library users to access the digital archive. A Book Bank Scheme in which the members are issued one standard book in each subject for use in an entire semester operates.<b></p>

</body>
</html>
```

OUTPUT



INLINECSS

```
<html>
<head>
<title>css</title>
<link rel="stylesheet" type="text/css" href="css.css">
<style>
h2
{
color:green;
}

</style>
</head>
<body bgcolor="E5E4E2">
<h1 style="color:red">Kozhikode</h1>
<h2>Kozhikode also known in English as Calicut, is an Indian city and the second-largest metropolitan city in the State of Kerala. It is also the 19th largest in the country with a population of two million according to the 2011 census.Kozhikode is classified as a Tier 2 city by the Government of India.</h2>
<p>It is the largest city in the region known as Malabar and was the capital of the British-era Malabar district. In antiquity and the medieval period, Kozhikode was dubbed the City of Spices for its role as the major trading point for Indian spices.

.</p>
<h3>It is the largest city in the region known as Malabar and was the capital of the British-era Malabar district. In antiquity and the medieval period, Kozhikode was
```

dubbed the City of Spices for its role as the major trading point for Indian spices.</h3>
<img src="/home/stud/Pictures/Screenshot from 2021-12-08 16-10-46.png" width="200" height="150">
</body>
</html>

OUTPUT

Kozhikode

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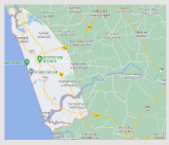

EXTRENAL CSS

<html>
<head>
<link rel="stylesheet" href="external.css">
</head>
<body>

<h1>FISAT</h1>
<img src=/home/stud/Downloads/logo.png >
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). It is one of the top private engineering colleges in Kerala. It is an initiative of the Federal Bank Officers' Association (FBOA), the sole representative body of the entire officers of the Federal Bank. FISAT is accredited by NBA and NAAC.

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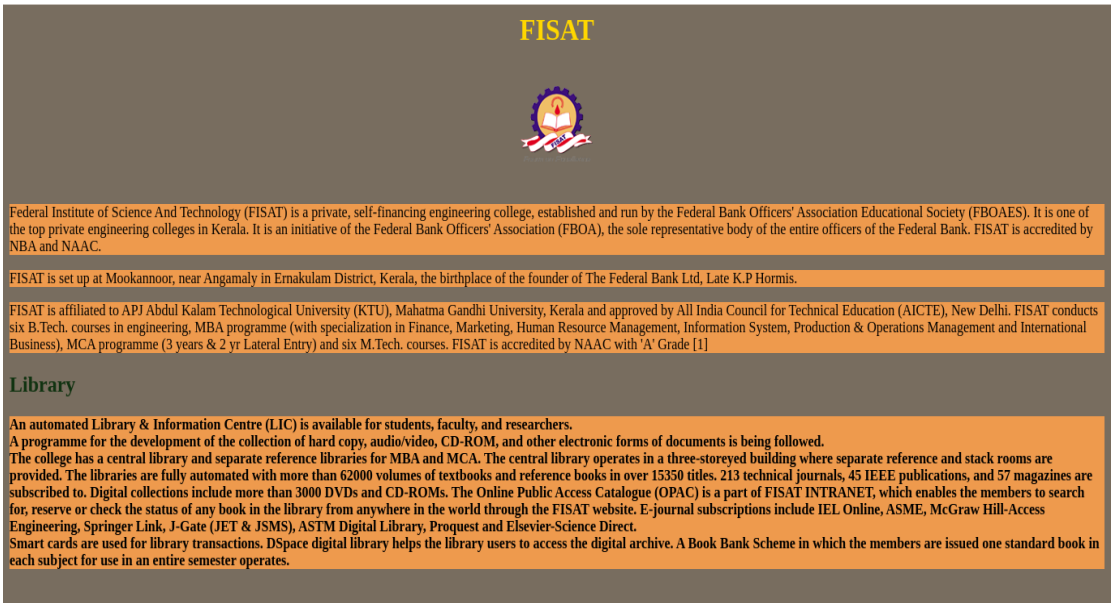
Smart cards are used for library transactions. DSpace digital library helps the library users to access the digital archive. A Book Bank Scheme in which the members are issued one standard book in each subject for use in an entire semester operates.<b>
</body>
</html>

external.css

```
body {background-color: 786D5F;}
h1   {color:gold;}
p    {color: black;}
p    {border: burzna;}
p    {background-color: #EE9A4D ;}
b    {fornt:areal}
h2   {color:#131;}
```

OUTPUT



AIM

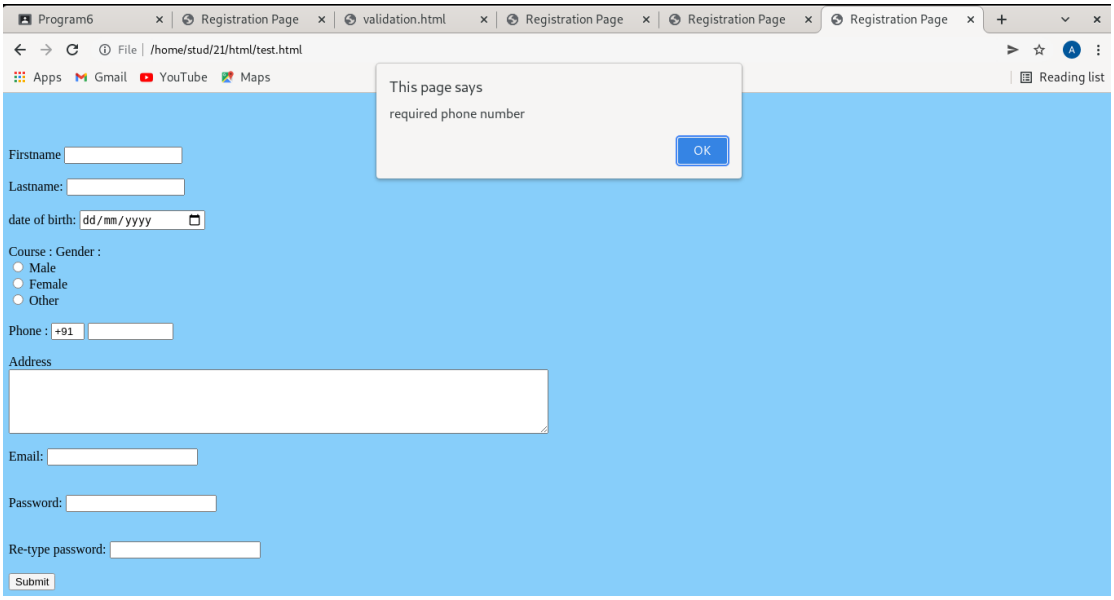
6. Create a HTML registration form and to validate the form using JavaScript code.

PROGRAM CODE

```
<Html>
<head>
<title>
Registration Page
</title>
<script>
function validate(){

var x = document.forms["name"]["phone"].value;
if(x=="")
{
alert("required phone number");
}
}
</script>
</head>
```

```
<body bgcolor="Lightskyblue"><center> <h1>
FISAT ADMISSION-2020-21 </h1>
</center>
<form name="name" method="post" onsubmit="validate()">
<label> Firstname </label>
<input type="text" name="firstname" size="15" /> <br> <br>
<label> Lastname: </label>
<input type="text" name="lastname" size="15"/> <br> <br>
<label> date of birth: </label>
<input type="date" name="date"><br><br>
<label>
Course :
</label>
  <label>
Gender :
</label><br>
<input type="radio" name="male"/> Male <br>
<input type="radio" name="male"/> Female <br>
<input type="radio" name="male"/> Other
<br>
<br>

<label>
Phone :
</label>
<input type="text" name="country code"  value="+91" size="2"/>
<input type="text" name="phone" size="10"/> <br> <br>
Address
<br>
<textarea cols="80" rows="5" value="address">
</textarea>
<br> <br>
Email:
<input type="email" id="email" name="email"/> <br>
<br> <br>
Password:
<input type="Password" id="pass" name="pass"> <br>
<br> <br>
Re-type password:
<input type="Password" id="repass" name="repass"> <br> <br>
<input type="Submit" value="Submit"/>
</form>
</body>
</html>
```

OUTPUT



AIM

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

PROGRAM CODE

```
<html>
<head><title>program 7</title>
<body bgcolor="white">
<p>The length property returns the length of a string:</p>
<h2>JavaScript String Length</h2>
<p id="length"></p>
<h2>JavaScript String slice()</h2>
<p id="demo"></p>

<script>

let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
document.getElementById("length").innerHTML = text.length;
let str = "Apple, Banana, Kiwi ,Jackfruit";
document.getElementById("demo").innerHTML = str.slice(7,17);

</script>


<h2>JavaScript String substring()</h2>
```

```
<p id="sub"></p>

<script>

let sbr = "thomas,alva,edison";
document.getElementById("sub").innerHTML = sbr.substring(7,11);

</script>

<h2>JavaScript String substr()</h2>
<p id="de"></p>

<script>
let pkr = "jack,mock,dark,peek";
document.getElementById("de").innerHTML = pkr.substr(7,6);
</script>

<h2>Convert string to upper case</h2>

<button onclick="capt()">click to big</button>

<p id="big">hello world!</p>

<script>
function capt() {
  let cap = document.getElementById("big").innerHTML;
  document.getElementById("big").innerHTML =
  cap.toUpperCase();
}
</script>

<h2>Convert string to lower case:</h2>

<button onclick="small()">make it small</button>

<p id="omed">HELLO WORLD</p>

<script>
function small() {
  let xx = document.getElementById("omed").innerHTML;
  document.getElementById("omed").innerHTML =
  xx.toLowerCase();
}
</script>

<H2>The concat() method joins two or more strings</H2>

<p id="con"></p>

<script>
```

```
let t1 = "Hello";
let t2 = "World!";
let t3 = t1.concat(" ",t2);
document.getElementById("con").innerHTML = t3;
</script>


<h2>The trim() Method</h2>

<p id="a"></p>

<script>
let txt1 = "     Hello World     ";
let txt2 = txt1.trim();

document.getElementById("a").innerHTML =
"Length txt1=" + txt1.length + "<br>Length2 txt2=" + txt2.length;
</script>


<h2>The charAt() method returns the character at a given position in a string:</h2>

<p id="b"></p>

<script>
var tt = "HELLO WORLD";
document.getElementById("b").innerHTML = tt.charAt(0);
</script>

<h2>JavaScript  string to array, Methods</h2>
<p>Display the first array element, after a string split:</p>

<p id="c"></p>

<script>
let te = "a,b,c,d,e,f";
const myArray = te.split(",");
document.getElementById("c").innerHTML = myArray[0];
</script>

<h2>The indexOf() Method</h2>

<p>indexOf() returns the position of the first occurrence of a specified value in a
string.</p>
<p> for eg:Find "welcome":
 </p>
<p id="e"></p>
<script>
let xt = "Hello world, welcome to the universe.";
let result = xt.indexOf("welcome");
```

```
document.getElementById("e").innerHTML = result;
</script>
<h2>The search() Method</h2>
<p>search() searches a string for a value and returns the position of the match:</p>
<p> Mr. Blue has a blue house</p>
<p id="f"></p>
<script>
let txxt = "Mr. Blue has a blue house"
let position = txxt.search("Blue");
document.getElementById("f").innerHTML = position;
</script>
<h2>The includes() Method</h2>

<p>includes() returns true if an array contains a specified element:</p>

<p>"Cat", "Orange", "Apple", "Mango", "Book"</p>
<p> Check mango</p>
<p id="g"></p>

<script>
const things = ["Cat", "Orange", "Apple", "Mango", "Book"];
document.getElementById("g").innerHTML = things.includes("Mango");
</script>
<h2>JavaScript Math.round()</h2>
<p>Math.round(x) returns the value of x rounded to its nearest integer:(4.6)</p>
<p id="h"></p>
<script>
document.getElementById("h").innerHTML = Math.round(4.6);
</script>
<h2>JavaScript Math.ceil()</h2>

<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:(4.4)</p

<p id="i"></p>

<script>
document.getElementById("i").innerHTML = Math.ceil(4.4);
</script>
<h2>JavaScript Math.floor()</h2>
<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to its
nearest integer:(4.7)</p>
<p id="j"></p>
<script>
document.getElementById("j").innerHTML = Math.floor(4.7);
</script>
<h2>JavaScript Math.trunc()</h2>

<p>Math.trunc(x) returns the integer part of x:(4.7)</p>

<p id="k"></p>
<script>
```

```
document.getElementById("k").innerHTML = Math.trunc(4.7);
</script>
<h2>JavaScript Math.sign()</h2>
<p>Math.sign(x) returns if x is negative, null or positive:(4)</p>
<p id="l"></p>
<script>
document.getElementById("l").innerHTML = Math.sign(4);
</script>
<h2>JavaScript Math.pow()</h2>
<p>Math.pow(x,y) returns the value of x to the power of y:(4.2)</p>
<p id="m"></p>
<script>
document.getElementById("m").innerHTML = Math.pow(4,2);
</script>
<h2>JavaScript Math.sqrt()</h2>
<p>Math.sqrt(x) returns the square root of x:(100)</p>
<p id="n"></p>
<script>
document.getElementById("n").innerHTML = Math.sqrt(100);
</script>
<h2>JavaScript Math.abs()</h2>
<p>Math.abs(x) returns the absolute (positive) value of x:(-4.4)</p>
<p id="o"></p>
<script>
document.getElementById("o").innerHTML = Math.abs(-4.4);
</script>
<h2>JavaScript Math.<strong>sin</strong>()</h2>
<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="p"></p>
<script>
document.getElementById("p").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
</script>
<h2>JavaScript Math.<strong>cos</strong>()</h2>
<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="q"></p>
<script>
document.getElementById("q").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
</script>
<h2>JavaScript Math.<strong>min</strong>() JavaScript Math.max()</h2>
<p>Math.min() returns the lowest value in a list of arguments(0, 150, 30, 20, -8, -
200):</p>
<p id="r"></p>
<script>
document.getElementById("r").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
```

```
<p>Math.max() returns the highest value in a list of arguments.(0, 150, 30, 20, -8, -200)</p>
<p id="s"></p>
<script>
document.getElementById("s").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>
<h2>JavaScript Math.random()</h2>
<p>Math.random() returns a random number between 0 and 1:</p>
<p id="u"></p>
<p>Tip: Click on "refresh on your s/m or reload the page" several times.</p>
<script>
document.getElementById("u").innerHTML = Math.random();
</script>
<h2>JavaScript Math.log()</h2>
<p>Math.log() returns the natural logarithm of a number:-0</p>
<p id="v"></p>
<script>
document.getElementById("v").innerHTML = Math.log(1);
</script>
<p>Math.log() returns the natural logarithm of a number:-1</p>
<p id="W"></p>
<script>
document.getElementById("W").innerHTML = Math.log(2);
</script>
</body>
</html>
```

OUTPUT

The length property returns the length of a string:

JavaScript String Length

26

JavaScript String slice()

Banana, Ki

JavaScript String substring()

alva

JavaScript String substr()

ck,dar

Convert string to upper case

click to big

HELLO WORLD!

Convert string to lower case:

make it small

hello world

The includes() Method

includes() returns true if an array contains a specified element:

"Cat", "Orange", "Apple", "Mango", "Book"

Check mango

true

JavaScript Math.round()

Math.round(x) returns the value of x rounded to its nearest integer:(4.6)

5

JavaScript Math.ceil()

Math.ceil() rounds a number **up** to its nearest integer:(4.4)

5

JavaScript Math.floor()

Math.floor(x) returns the value of x rounded **down** to its nearest integer:(4.7)

4

JavaScript Math.trunc()

Math.trunc(x) returns the integer part of x:(4.7)

4

The concat() method joins two or more strings

Hello World!

The trim() Method

Length txt1=21
Length2 txt2=11

The charAt() method returns the character at a given position in a string:

H

JavaScript string to array, Methods

Display the first array element, after a string split:

a

The indexOf() Method

indexOf() returns the position of the first occurrence of a specified value in a string.

for eg:Find "welcome":

13

The search() Method

search() searches a string for a value and returns the position of the match:

Mr. Blue has a blue house

Math.sign(x) returns if x is negative, null or positive:(4)

1

JavaScript Math.pow()

Math.pow(x,y) returns the value of x to the power of y:(4.2)

16

JavaScript Math.sqrt()

Math.sqrt(x) returns the square root of x:(100)

10

JavaScript Math.abs()

Math.abs(x) returns the absolute (positive) value of x:(-4.4)

4.4

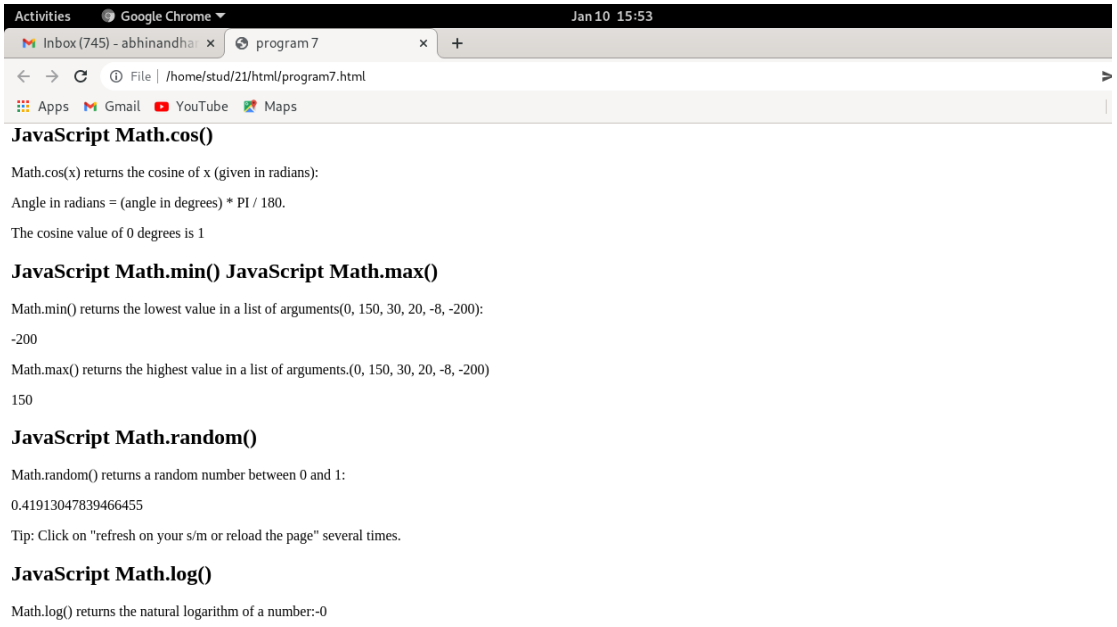
JavaScript Math.sin()

Math.sin(x) returns the sin of x (given in radians):

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

The sine value of 90 degrees is 1

JavaScript Math.cos()



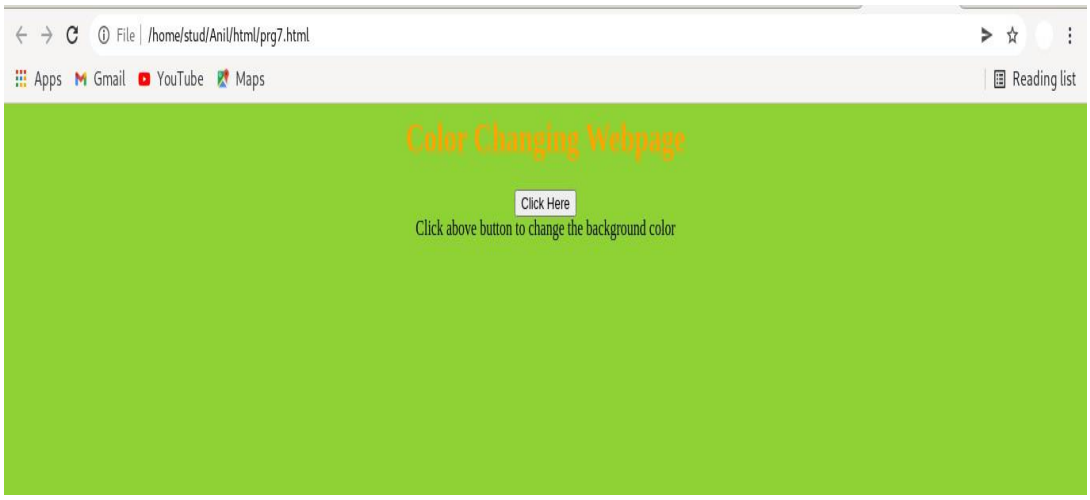
AIM

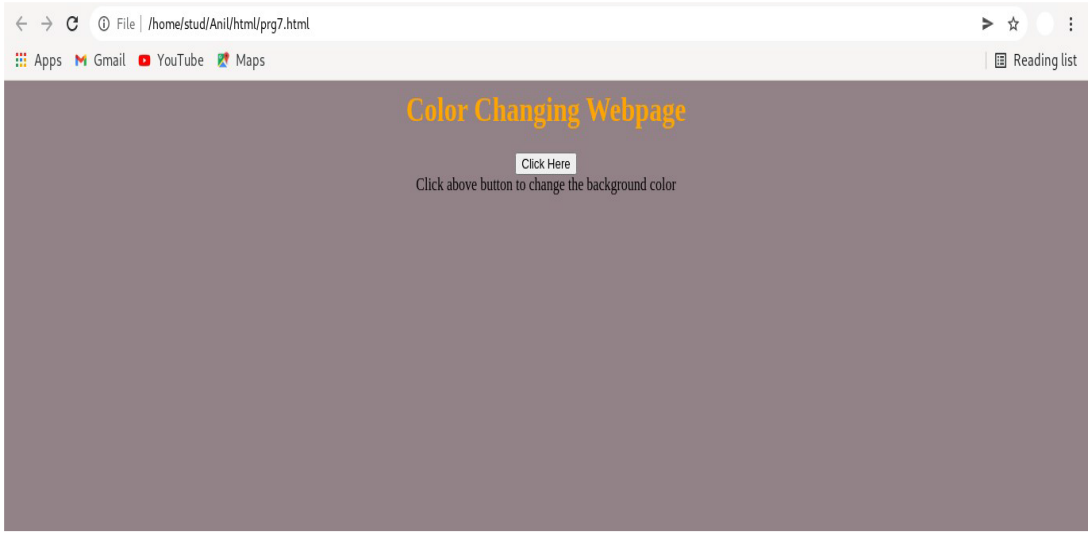
8.Create a HTML page to change the background color for every click of a button using JavaScript Event Handling

PROGRAM CODE

```
<html>
<head>
<title>
changing the background color
</title>
</head>
<body style = "text-align:center;">
<b><h1 style = "color:orange;" >
Color Changing Webpage</b>
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here
</button>
<br>
<script>
document.writeln( "Click above 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





AIM

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

PROGRAM CODE

```
<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
</th><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

Enter The year : 2022

Enter The Month: 1

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	*	*	*	*	*	*

AIM

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

PROGRAM CODE

```
<html>
<head>
<title>PHP - Calculate Electricity Bill</title>
</head>

<?php
$result_str = $result = '';
if (isset($_POST['unit-submit'])) {
```

```
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $result_str = 'Total amount of ' . $units . ' - ' . $result;
    }
}
/**
 * To calculate electricity bill as per unit cost
 */
function calculate_bill($units) {
    $unit_cost_first = 3.50;
    $unit_cost_second = 4.00;
    $unit_cost_third = 5.20;
    $unit_cost_fourth = 6.50;

    if($units <= 50) {
        $bill = $units * $unit_cost_first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $unit_cost_first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units * $unit_cost_second);
    }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 * $unit_cost_second);
        $remaining_units = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
        $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
        $remaining_units = $units - 250;
        $bill = $temp + ($remaining_units * $unit_cost_fourth);
    }
    return number_format((float)$bill, 2, '.', '');
}

?>

<body>
<div id="page-wrap">
<h1>Php - Calculate Electricity Bill</h1>

<form action="" method="post" id="quiz-form">
        <input type="number" name="units" id="units" placeholder="Please enter no.
of Units" />
        <input type="submit" name="unit-submit" id="unit-submit" value="Submit"
/>
</form>

<div>
```

```
  <?php echo '<br />' . $result_str; ?>
</div>
</div>
</body>
</html>
```

OUTPUT

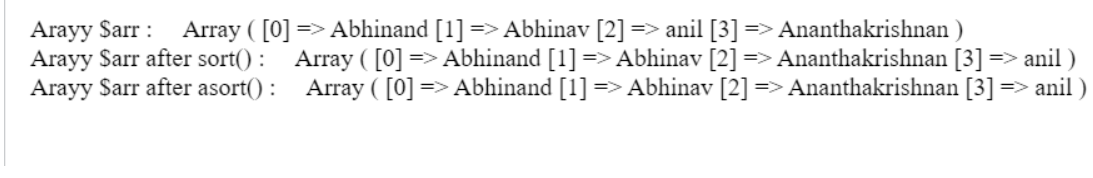
AIM

11.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

PROGRAM CODE

```
<?php $arr=array("Abhinand","Abhinav","anil","Ananthakrishnan");
echo 'Arayy $arr :';
echo "     ";
print_r($arr);
echo "<br>";
sort($arr);
echo 'Arayy $arr after sort() :';
echo "     ";
print_r($arr);
echo "<br>";
asort($arr);
echo 'Arayy $arr after asort() :';
echo "     ";
print_r($arr);
?>
```

OUTPUT



AIM

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

PROGRAM CODE

```
<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

AIM

13. 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.

PROGRAM CODE

bookinfo.html:

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

addbook.html:

```
<html><head>
<title>add book</title></head>
<body>
<form name="frm1" action="addl.php" method="POST">
```

```
<center><b><u>Enter 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
$num=$_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";
}
$sql="INSERT INTO book2 VALUES($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:

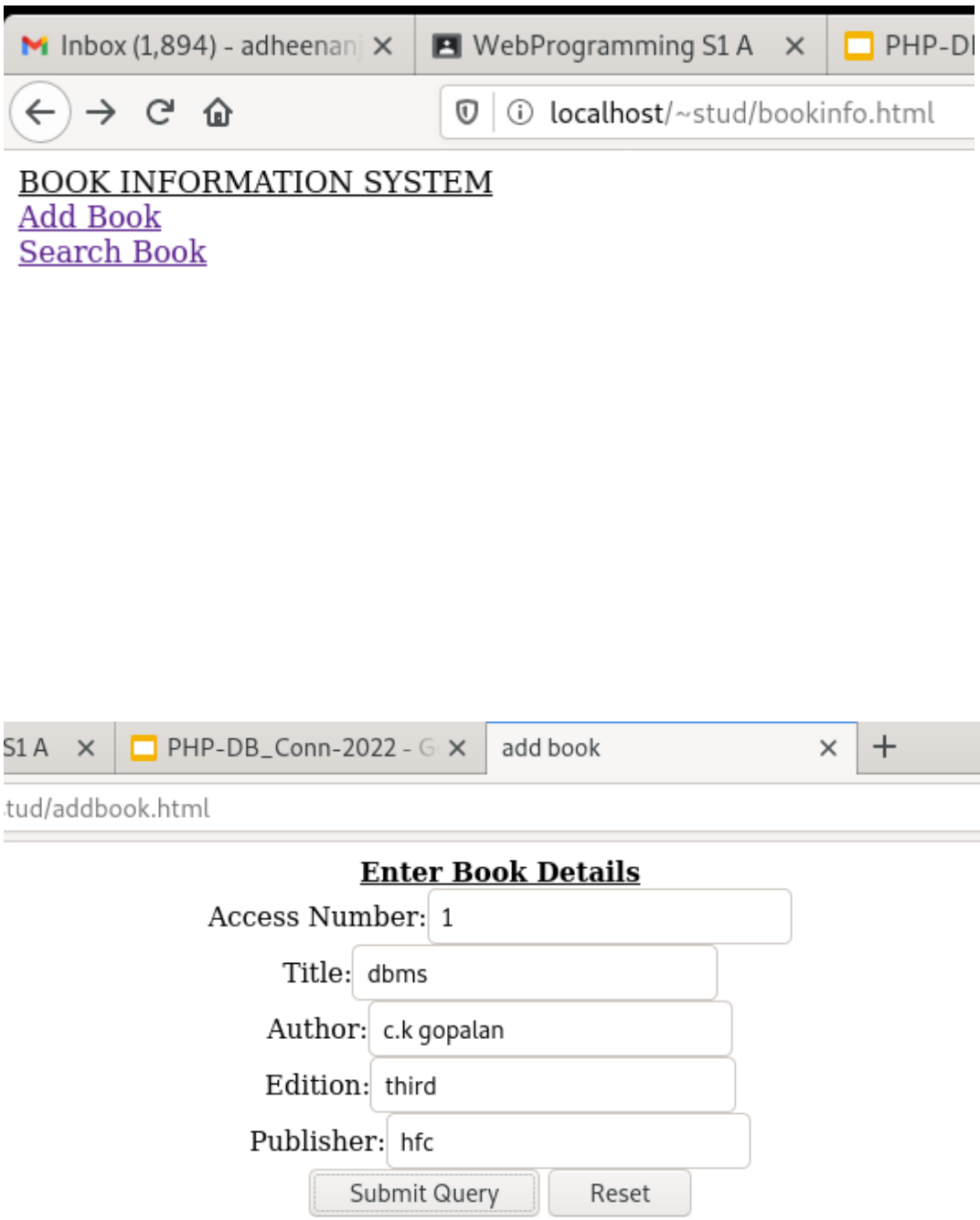
```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="searchl.php"
method="POST">
<center>
<b><u>SEARCH A BOOK</u></b><br>
Enter book title:<input type="text" name="txt"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

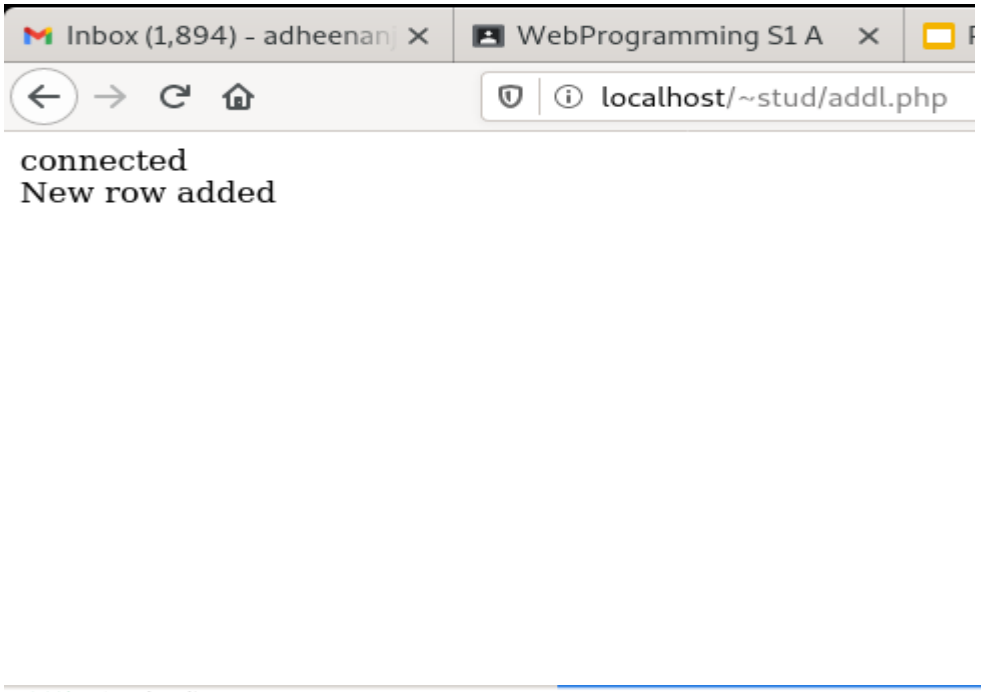
searchl.php:

```
<?php
$title=$_POST['txt'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
```

```
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected \n";
}
$sql="select * from book2 where Title='$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();
?>
```

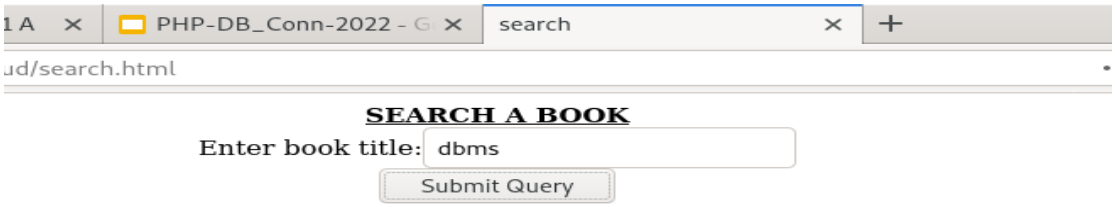
OUTPUT


Inbox (1,894) - adheenan
WebProgramming S1 A
PHP-DI
localhost/~stud/bookinfo.html
BOOK INFORMATION SYSTEM
Add Book
Search Book
S1 A
PHP-DB_Conn-2022 - G
add book
tud/addbook.html
Enter Book Details
Access Number: 1
Title: dbms
Author: c.k gopalan
Edition: third
Publisher: hfc
Submit Query
Reset




```
stud@debian:~$ mysql -u fisat -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 59
Server version: 10.5.11-MariaDB-1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use fisatdb
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [fisatdb]> create table book2(access_no int(10),title varchar(20),author varchar(20),edition varchar(20),publisher varchar(20));
Query OK, 0 rows affected (0.120 sec)

MariaDB [fisatdb]> desc book2;
+-----------+------------+------+-----+---------+-------+
| Field     | Type       | Null | Key | Default | Extra |
+-----------+------------+------+-----+---------+-------+
| access_no | int(10)    | YES  |     | NULL    |       |
| title     | varchar(20) | YES  |     | NULL    |       |
| author    | varchar(20) | YES  |     | NULL    |       |
| edition   | varchar(20) | YES  |     | NULL    |       |
| publisher | varchar(20) | YES  |     | NULL    |       |
+-----------+------------+------+-----+---------+-------+
5 rows in set (0.002 sec)
```

```
MariaDB [fisatdb]> select * from book2;
+-----------+--------+-------------+---------+-----------+
| access_no | title  | author      | edition | publisher |
+-----------+--------+-------------+---------+-----------+
|         1 | dbms   | c.k gopalan | third   | hfc       |
|         2 | java   | k.k rajeev  | second  | hww       |
|         3 | python | p.k rajeesh | fifth   | llp       |
+-----------+--------+-------------+---------+-----------+
3 rows in set (0.001 sec)

MariaDB [fisatdb]>
```



AIM

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

PROGRAM 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>
```

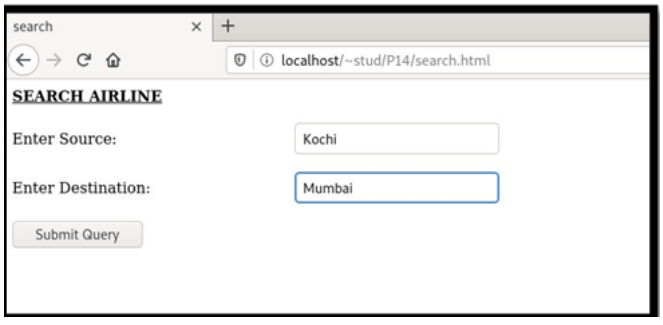
Search.php

```
<?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))
```

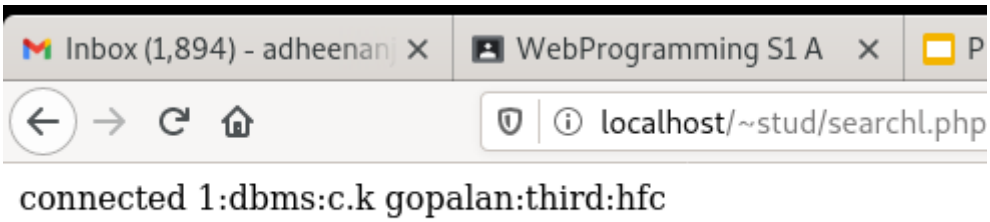
```
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
$row[4]."\n\n";}
$result->close();
}
else
{
echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

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)
```




localhost/~stud/P14/searchl
localhost/~stud/P14/searchl.php
connected 12:xyz:Kochi:Mumbai:2022-03-13 2:Air india:Kochi:Mumbai:2022-03-08


Inbox (1,894) - adheenan
WebProgramming S1 A
localhost/~stud/searchl.php
connected 1:dbms:c.k gopalan:third:hfc