FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

Name: **DEVADARSU JEEVANKUMAR**

Branch: **MASTER OF COMPUTER APPLICATION**

Semester: **1** **Batch: 2021 A** **Roll No: 51**

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

'FOCUS ON EXCELLENCE'

CERTIFICATE

Certified that this is the Bonafide record of the Practical work done by Mr. **DEVADARSU JEEVANKUMAR (FIT21MCA2051)** 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

Name:

Date:

Signature of H.O.D

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

CONTENT

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

EXPERIMENT NO:1

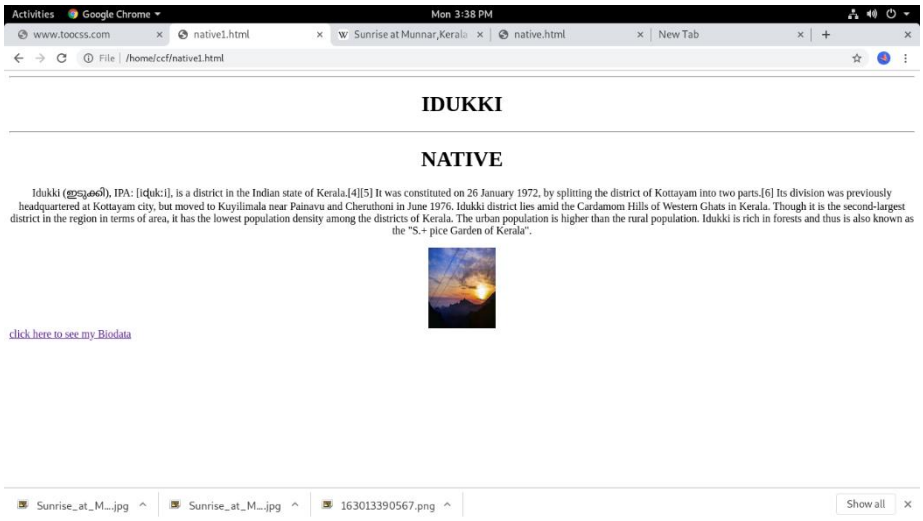
AIM

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

PROGRAM CODE

```
<html>
	<head>
		<body>
			<center><hr><h1><marquee> IDUKKI</marquee></h1><hr>
			<center><h1>NATIVE</h1>
	</center>
<p>Idukki (□□□□□□□), IPA: [iḍuk:i], is a district in the Indian state of Kerala.[4][5] It was constituted on 26 January 1972, by splitting the district of Kottayam into two parts.[6] Its division was previously headquartered at Kottayam city, but moved to Kuyilimala near Painavu and Cheruthoni in June 1976. Idukki district lies amid the Cardamom Hills of Western Ghats in Kerala.

Though it is the second-largest district in the region in terms of area, it has the lowest population density among the districts of Kerala. The urban population is higher than the rural population. Idukki is rich in forests and thus is also known as the "S.+
pice Garden of Kerala".</p>

			<a
href="file:///home/ccf/Downloads/Sunrise_at_Munnar,Kerala.jpg"><img
src="file:///home/ccf/Downloads/Sunrise_at_Munnar,Kerala.jpg" width="100px"
height="120px" align="center"></a></center>
	</body>
	<a href="file:///home/ccf/native.html">click here to see my Biodata</a>

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

OUTPUT


Activities
Google Chrome
Mon 3:38 PM
www.toocss.com
native1.html
Sunrise at Munnar,Kerala
native.html
New Tab
File | /home/ccf/native1.html
IDUKKI
NATIVE
Idukki (ഇടുക്കി), IPA: [iɖukːi], is a district in the Indian state of Kerala.[4][5] It was constituted on 26 January 1972, by splitting the district of Kottayam into two parts.[6] Its division was previously headquartered at Kottayam city, but moved to Kuyilimala near Painavu and Cheruthoni in June 1976. Idukki district lies amid the Cardamom Hills of Western Ghats in Kerala. Though it is the second-largest district in the region in terms of area, it has the lowest population density among the districts of Kerala. The urban population is higher than the rural population. Idukki is rich in forests and thus is also known as the "S.+ pice Garden of Kerala".
click here to see my Biodata
Sunrise_at_M....jpg
Sunrise_at_M....jpg
163013390567.png
Show all

EXPERIMENT NO:2

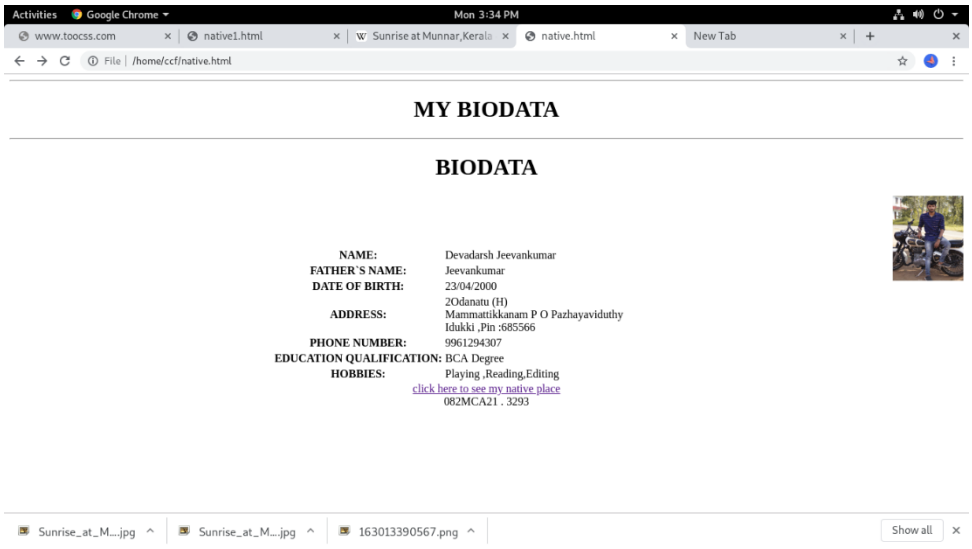
AIM

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

PROGRAM CODE

```
<html>
        <head>
                <body>
                        <center><hr><h1><maquee> MY BIODATA</marquee></h1><hr>
                        <center><h1>BIODATA</h1>
                <a href="file:///home/ccf/Downloads/163013390567.png"> <img
src="file:///home/ccf/Downloads/163013390567.png" width="100px" height="120px"
align="right"></a>
                        </center>
                        <center><table>
                        <tr>
                                <th>NAME:</th><td> Devadarsh Jeevankumar</td>
                   </tr><tr>
                                <th>FATHER`S NAME:</th><td>Jeevankumar</td>
                        </tr><tr>
                                <th>DATE OF BIRTH:</th><td>23/04/2000</td></br>
                        </tr><tr>
                                <th>ADDRESS:</th><td>2Odanatu (H)
</br>Mammattikkanam P O Pazhayaviduthy </br>Idukki ,Pin :685566</td>
                        </tr><tr>
                                <th>PHONE NUMBER:</th><td>9961294307</td></br>
                        </tr><tr>
                                <th>EDUCATION QUALIFICATION:</th><td>BCA
Degree</td></br>
                        </tr><tr>
                                <th>HOBBIES:</th><td>Playing ,Reading,Editing</td></br>
                        </tr>
                        </table>
                        <a href="file:///home/ccf/native1.html">click here to see my native
place</a></center>
                </body>082MCA21 .  3293
</html>
```

OUTPUT


Activities
Google Chrome
Mon 3:34 PM
www.toocss.com
native1.html
Sunrise at Munnar,Kerala
native.html
New Tab
File | /home/ccf/native.html
MY BIODATA
BIODATA
NAME: Devadarsh Jeevankumar
FATHER'S NAME: Jeevankumar
DATE OF BIRTH: 23/04/2000
ADDRESS: 2Odanatu (H)
Mammattikkanam P O Pazhayaviduthy
Idukki ,Pin :685566
PHONE NUMBER: 9961294307
EDUCATION QUALIFICATION: BCA Degree
HOBBIES: Playing ,Reading,Editing
click here to see my native place
082MCA21 . 3293
Sunrise_at_M....jpg
Sunrise_at_M....jpg
163013390567.png
Show all

EXPERIMENT NO:3

AIM

Create an application form for MCA course in FISAT.

PROGRAM CODE

```
<html>
<head>
<title>Application for admission
</title>
</head>
<body>
<center>
<img src="https://fisat.ac.in/files/events/5725291883.jpg" height="200px"
width="250px" backgro> </center>
<h1 align="center">Federal Institute of Science And Technology (FISAT)</h1>
<form method="POST" action="comments.php">
Name<br><input name="name" type="text" size="20"><br>
<h3>Permanent Address</h3>
Address<br><input name="ad1" type="text" size="40"><br><br>
City        <input name="city"
type="text" size="20">    
State      <input name="state" type="text"
size="20"><br><br>
Country  <input name="country" type="text" size="20">   
Pincode  <input name="pincode" type="number" size="6"><br><br>
Mobile Number<br><input name="mobile" type="number" size="10"><br><br>
Alternative Mobile Number<br><input name="alternativemobile" type="number"
size="10"><br><br>
<h3>Address for communication</h3>
Same as Permanent Address<br>
```

```
<input type="checkbox" name="name" value="sameaspermanent"><br><br>

Address<br><input name="altad1" type="text" size="40"><br><br>

City        <input name="altcity"
type="text" size="20">   

State       <input name="altstate" type="text"
size="20"><br><br>

Country  <input name="altcountry" type="text"
size="20">   

Pincode  <input name="altpincode" type="number" size="6"><br><br>
Mobile Number<br><input name="altmobile" type="number" size="10"><br><br>

<h4>Email Id</h4><br><input name="email" type="email" size="20"><br><br>

<label for="dob">Date Of Birth : </label>

<input type = "date" id="dob" name="dob">

<h4>Gender</h4>

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

Male

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

Female<br><br>

<h2>Academic Qualification</h2>

Entrance Rank(if available)<br><input name="erank" type="number"
size="2000"><br><br> Tenth%<br><input name="10th" type="number"
size="100"><br><br>

Plus Two%<br><input name="plustwo" type="number" size="100"><br><br>

Whether candidate has studied mathematics at +2/degree %<br>

<input type="radio" name="maths?" value=yes>

YES

<input type="radio" name="maths?" value=no>

NO<br><br>

Graduation Course taken/completed

<br>

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

BSc

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

BCA

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

Bcom

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

Others <input name="others" type="text" size="20">

Degree Percentage(upto published)
<input name="degree" type="number" size="100">

Semester upto results available
<input name="sem" type="number" size="100">

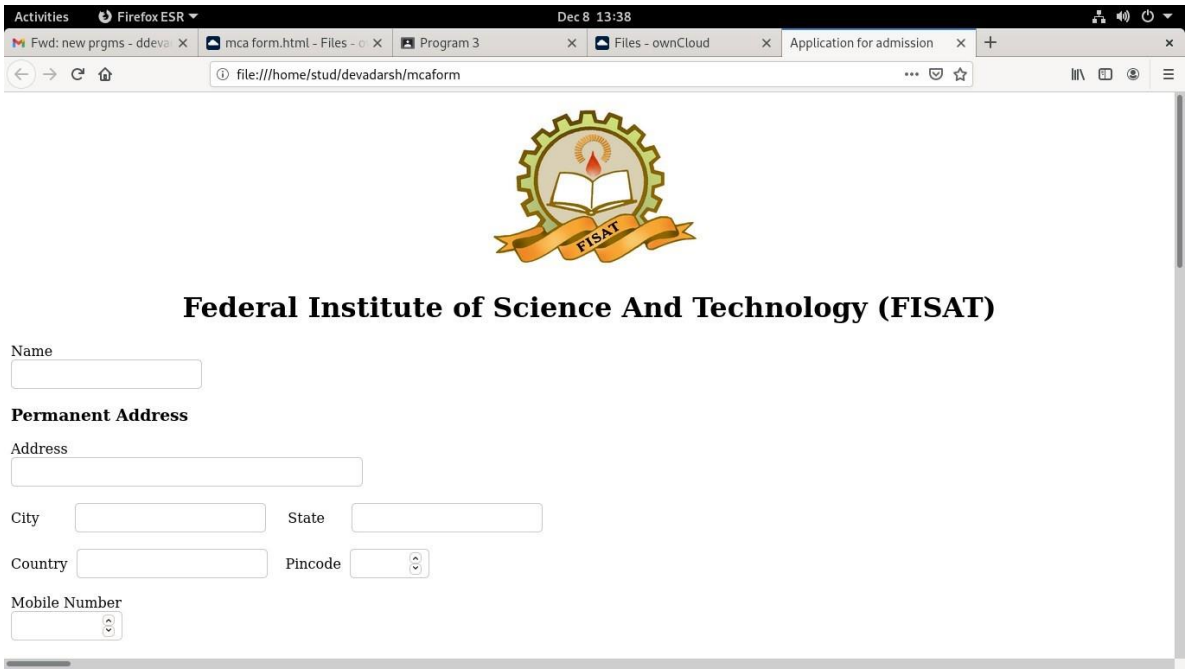
<input type="Submit" name="send" value="Proceed">

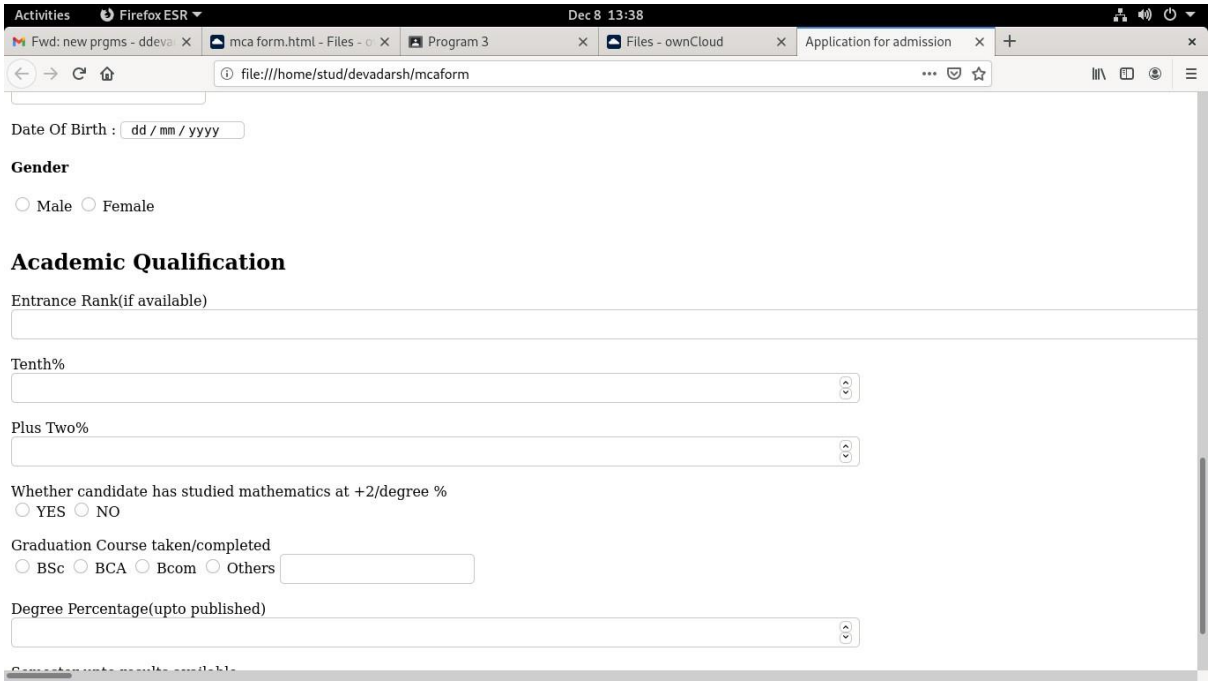
</form>

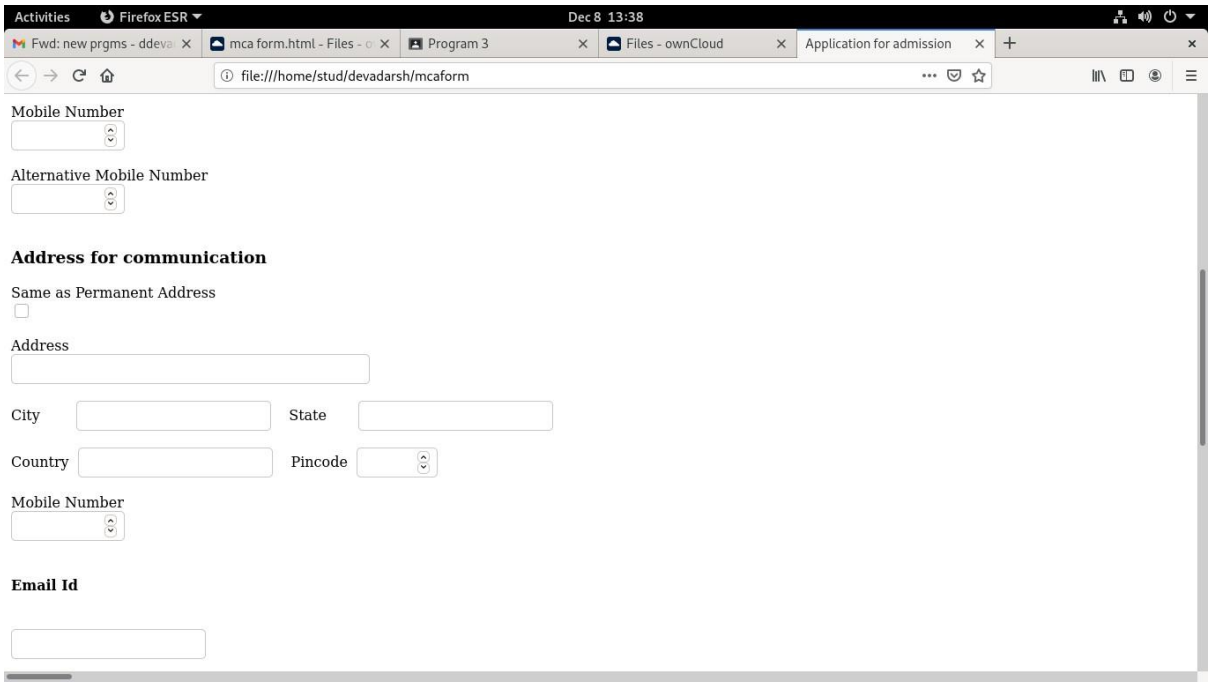
</body>

</html>

OUTPUT




Activities
Firefox ESR
Dec 8 13:38
Fwd: new prgms - ddeva
mca form.html - Files -
Program 3
Files - ownCloud
Application for admission
file:///home/stud/devadarsh/mcaform
Date Of Birth : dd / mm / yyyy
Gender
Male Female
Academic Qualification
Entrance Rank(if available)
Tenth%
Plus Two%
Whether candidate has studied mathematics at +2/degree %
YES NO
Graduation Course taken/completed
BSc BCA Bcom Others
Degree Percentage(upto published)


Activities
Firefox ESR
Dec 8 13:38
Fwd: new prgms - ddeva
mca form.html - Files -
Program 3
Files - ownCloud
Application for admission
file:///home/stud/devadarsh/mcaform
Mobile Number
Alternative Mobile Number
Address for communication
Same as Permanent Address
Address
City
State
Country
Pincode
Mobile Number
Email Id

EXPERIMENT NO:4

AIM

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

PROGRAM CODE

Main page.html

```
< html>

< body>

< a href="navigationframe.html" target="two">navigation frame</a><br>

< a href="file:///C:/Users/Devadarsh%20j/OneDrive/Desktop/html/floatingframe.html" target="two">floating frame</a><br>

< a href="file:///C:/Users/Devadarsh%20j/OneDrive/Desktop/html/floatingframe.html" target="two">mixed frame</a><br>

< /body>

< /html>
```

Floating frame.html

```
< html>

< head><title>frame</title></head>

< frameset cols="30%,70%">

< frame src ="table.html"></frame>

< frameset cols="50%,50%">

< frame src ="mainpage.html"></frame>

< frame src ="https://www.wikipedia.org/"></frame>

< /frameset>

< /frameset

< body>
```

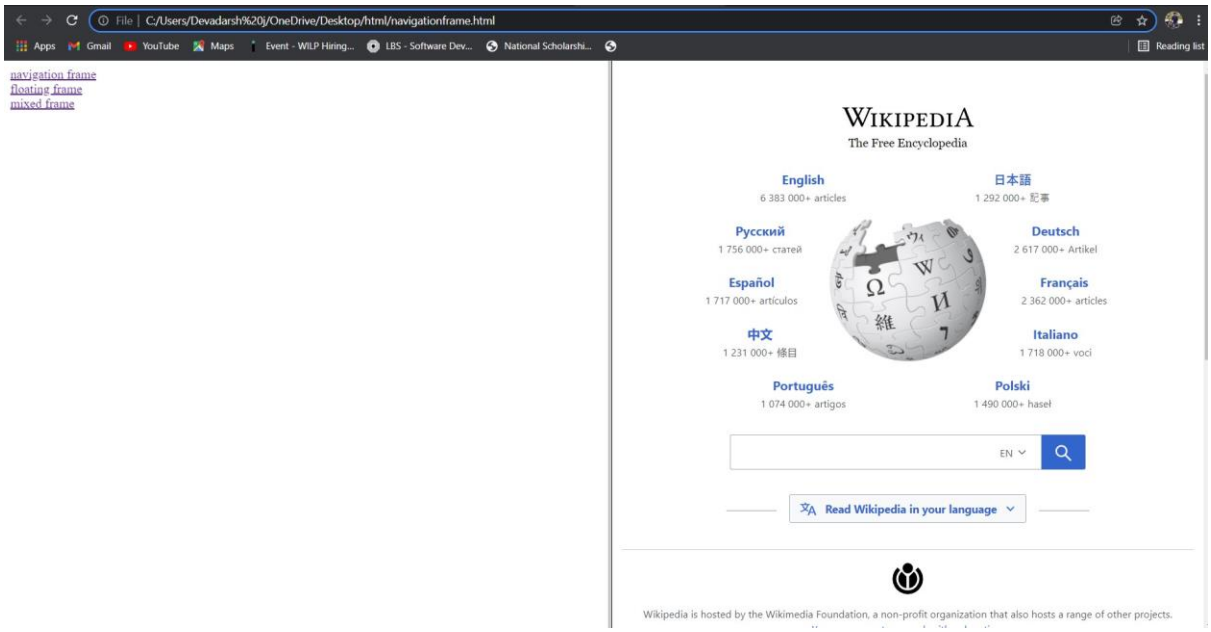
Navigation frame.html

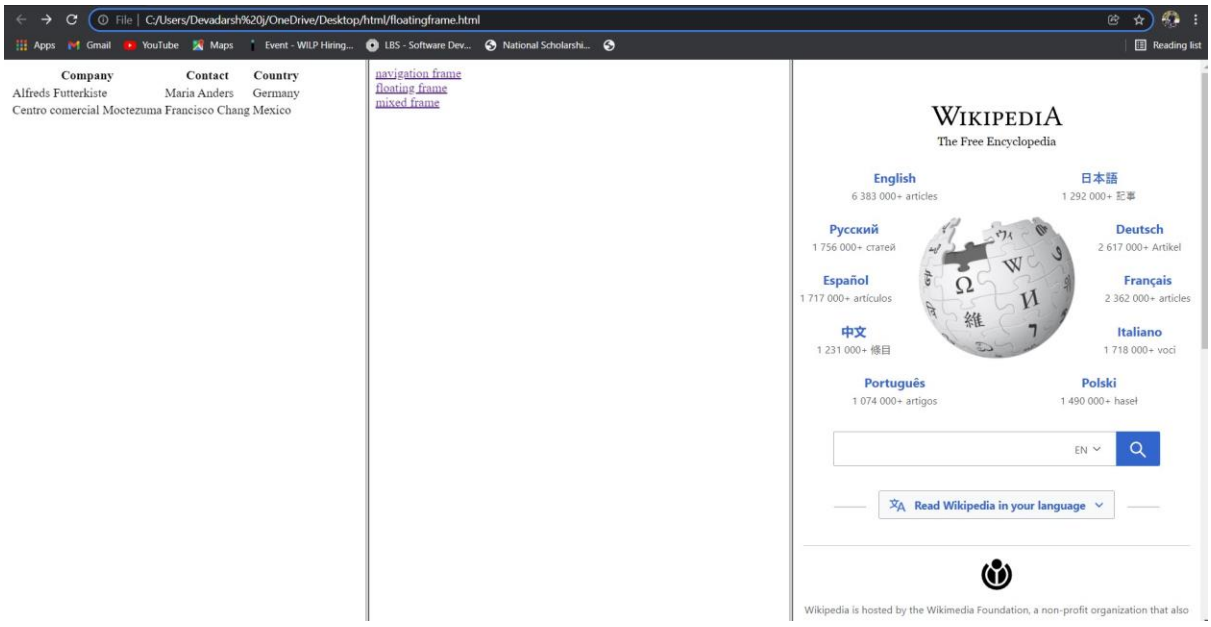
```
< htmll>
< head>
< title>Frame Navigation Example</title>
< /head>
< frameset COLS="*,*">
< frame NAME="left" SRC="mainpage.html">
< frame NAME="right" SRC="https://www.wikipedia.org/">
< /frameset>
< /html>
```

Table.html

```
< table>
  < tr>
    < th>Company</th>
    < th>Contact</th>
    < th>Country</th>
  < /tr>
  < tr>
    < td>Alfreds Futterkiste</td>
    < td>Maria Anders</td>
    < td>Germany</td>
  < /tr>
  < tr>
    < td>Centro comercial Moctezuma</td>
    < td>Francisco Chang</td>
    < td>Mexico</td>
  < /tr>
</table>
```

OUTPUT


File | C:/Users/Devadarsh%20j/OneDrive/Desktop/html/navigationframe.html
Apps
Gmail
YouTube
Maps
Event - WILP Hiring...
LBS - Software Dev...
National Scholarshi...
Reading list
navigation frame
floating frame
mixed frame
WIKIPEDIA
The Free Encyclopedia
English
6 383 000+ articles
日本語
1 292 000+ 記事
Русский
1 756 000+ статей
Deutsch
2 617 000+ Artikel
Español
1 717 000+ artículos
Français
2 362 000+ articles
中文
1 231 000+ 條目
Italiano
1 718 000+ voci
Português
1 074 000+ artigos
Polski
1 490 000+ haseł
EN
Read Wikipedia in your language
Wikipedia is hosted by the Wikimedia Foundation, a non-profit organization that also hosts a range of other projects.


File | C:/Users/Devadarsh%20j/OneDrive/Desktop/html/floatingframe.html
Apps
Gmail
YouTube
Maps
Event - WILP Hiring...
LBS - Software Dev...
National Scholarshi...
Reading list
Company
Contact
Country
Alfreds Futterkiste
Maria Anders
Germany
Centro comercial Moctezuma
Francisco Chang
Mexico
navigation frame
floating frame
mixed frame
WIKIPEDIA
The Free Encyclopedia
English
6 383 000+ articles
日本語
1 292 000+ 記事
Русский
1 756 000+ статей
Deutsch
2 617 000+ Artikel
Español
1 717 000+ artículos
Français
2 362 000+ articles
中文
1 231 000+ 條目
Italiano
1 718 000+ voci
Português
1 074 000+ artigos
Polski
1 490 000+ haseł
EN
Read Wikipedia in your language
Wikipedia is hosted by the Wikimedia Foundation, a non-profit organization that also

EXPERIMENT NO:5

AIM

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

PROGRAM CODE

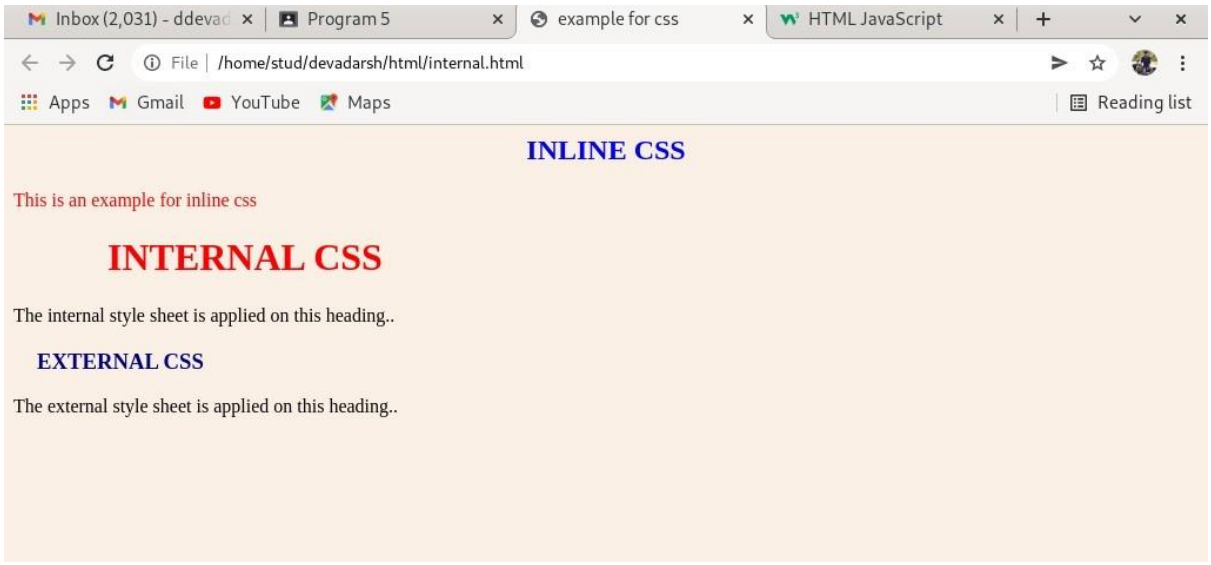
```
<html>
<head>
<title>example for css</title>
<link rel="stylesheet" type="text/css" href="mystyle.css">
<style>  body {
   background-color: linen;
}  h1 {      color: red;      margin-left: 80px;
}
</style>
</head>
<body>
<h2 style="color:blue;text-align:center;">INLINE CSS</h2>
<p style="color:red;">This is an example for inline css</p>
<h1>INTERNAL CSS</h1>
<p>The internal style sheet is applied on this heading..</p>
<h3>EXTERNAL CSS</h3>
<p>The external style sheet is applied on this heading..</p>
</body>  </html>
```

mystyle.css

```
body {
   background-color: lightblue;
}  h3 {      color: navy;
   margin-left: 20px;
```

```
}
```

OUTPUT


Inbox (2,031) - ddeva
Program 5
example for css
HTML JavaScript
File | /home/stud/devadarsh/html/internal.html
Apps
Gmail
YouTube
Maps
Reading list
INLINE CSS
This is an example for inline css
INTERNAL CSS
The internal style sheet is applied on this heading..
EXTERNAL CSS
The external style sheet is applied on this heading..

EXPERIMENT NO:6

AIM

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

PROGRAM CODE

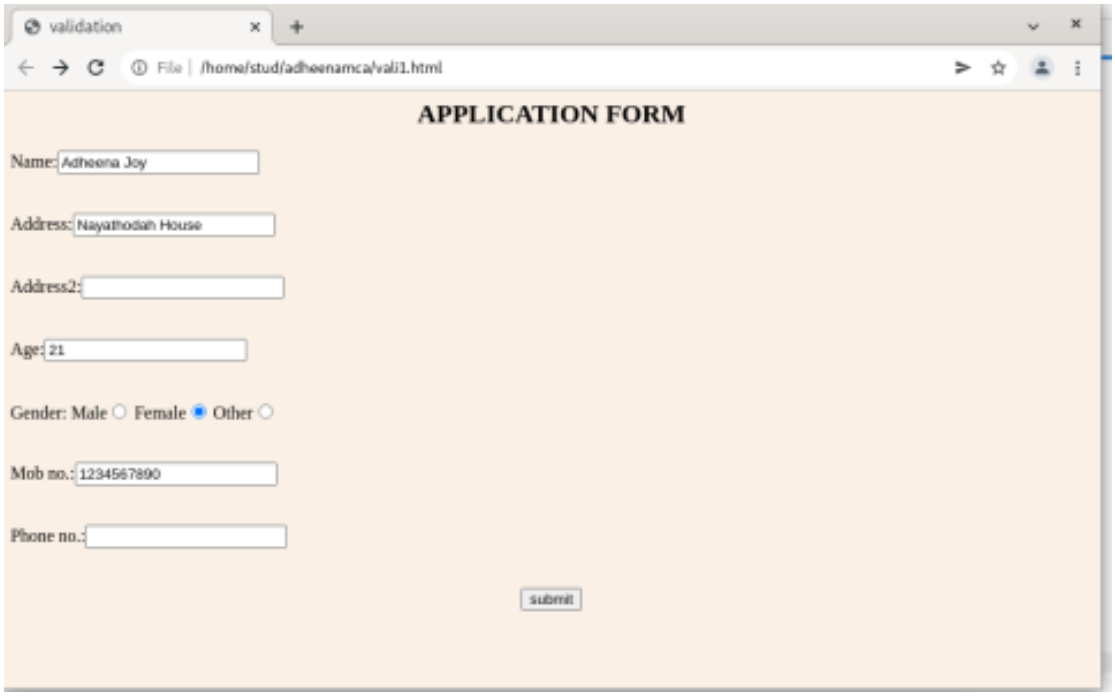
```
<html>
<head>
<title>validation</title>
<script>
function validateform(){
let x=document.forms["myform"]["fname"].value; if(x==""){
alert("name must be required");}
let z=document.forms["myform"]["address"].value; if(z==""){
alert("Address must be filled out");}
let y=document.forms["myform"]["age"].value;
if(y==""){
alert("Age must be required");}
let a=document.forms["myform"]["gender"].value; if(a==""){
alert("Gender must be selected");}
let b=document.forms["myform"]["mob"].value;
if(b==""){
alert("Please enter your mobile number");
return false;
}
}
</script>
</head>
<body bgcolor="linen">
<h2><center>APPLICATION FORM</center></h2>
```

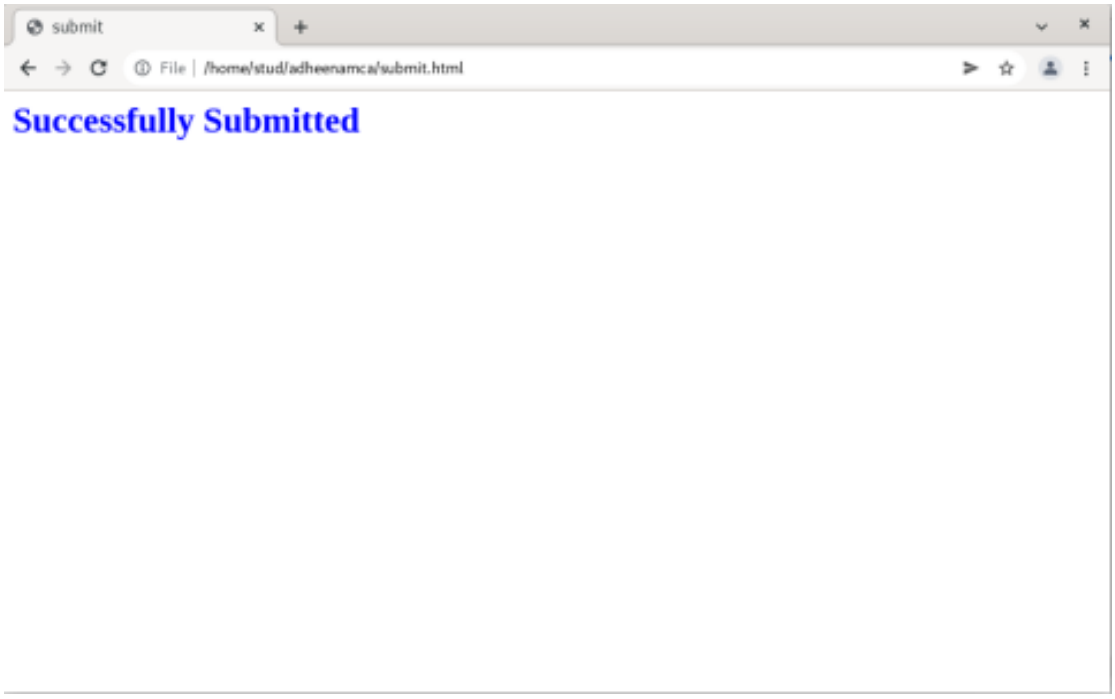
```
<form name="myform" action="submit.html" onsubmit="return  validateform()"
method="post">

Name:<input type="text" name="fname"><br><br> <br>

Address:<input type="text" name="address"><br><br> <br>

Address2:<input type="text" name="address2"><br><br> <br>

Age:<input type="text" name="age"><br><br><br> Gender: Male<input type="radio"
name="gender" value="m"> Female<input type="radio" name="gender" value="f">
Other<input type="radio" name="gender"

value="o"><br><br><br>

Mob no.:<input type="text" name="mob"><br><br> <br>

Phone no.:<input type="text" name="ph"><br><br> <br>

<center><input type="submit" value="submit"></center> </form>

</body>

</html>
```

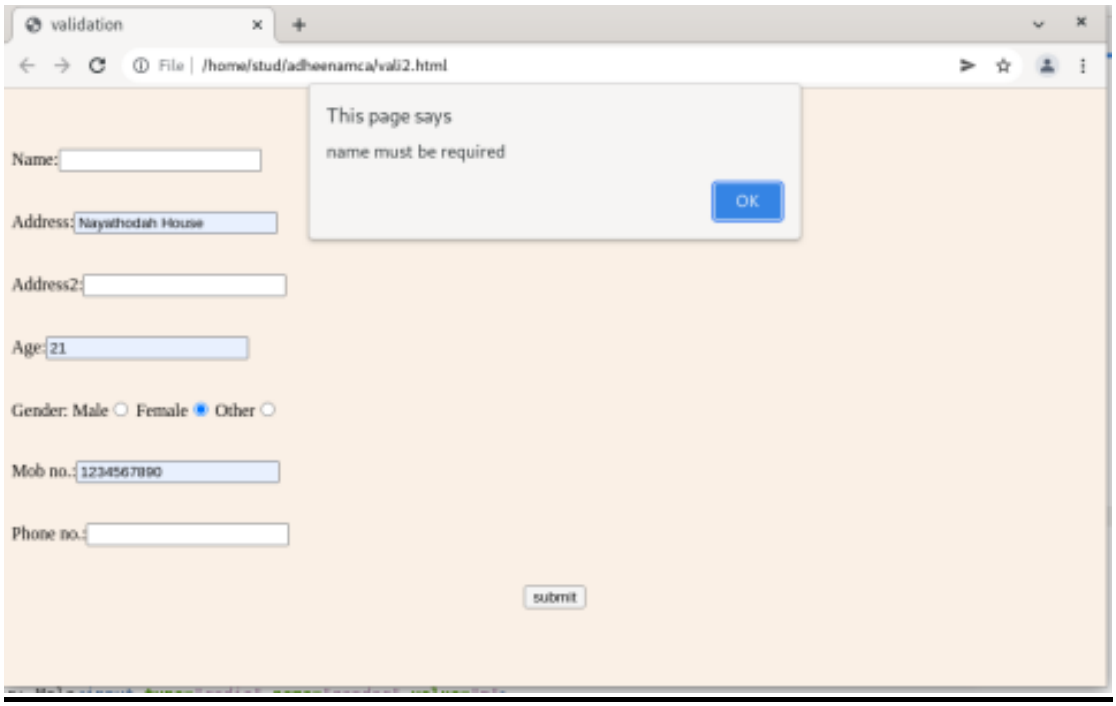
SUBMIT.HTML

```
<html>

<head>

<title>submit</title>

</head>

<body>

<h1><font color="blue">Successfully Submitted</font></h1> </body>

</html>
```

OUTPUT


validation
File | /home/stud/adheenamca/vali1.html
APPLICATION FORM
Name: Adheena Joy
Address: Nayathodath House
Address2:
Age: 21
Gender: Male Female Other
Mob no.: 1234567890
Phone no.:
submit


submit
File | /home/stud/adheenamca/submit.html
Successfully Submitted


validation
File | /home/stud/adheenamca/vali2.html
This page says
name must be required
OK
Name:
Address: Nayathodah House
Address2:
Age: 21
Gender: Male Female Other
Mob no.: 1234567890
Phone no.:
submit

EXPERIMENT NO:7

AIM

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

PROGRAM CODE

```
<html>
<body>
<center><h2><b>JavaScript String Properties</b></h2></center>
<p><b>The length property returns the length of a string:</b></p>
<p id="demo"></p>
<p><b>The slice() method extract a part of a string and returns the extracted parts in a new string:</b></p>
<p id="demo1"></p>
<p><b>The substring() method extract a part of a string and returns the extracted parts in a new string:</b></p>
<p id="demo2"></p>
<p><b>The substr() method extract a part of a string and returns the extracted parts in a new string:</b></p>
<p id="demo3"></p>
<p><b>Replace "canada" with "paris" in the paragraph below:</b></p>
<button onclick="myFunction()">Try it</button>
<p id="demo4">Go to canada!</p>
<p><b>Convert string to upper case:</b></p>
<button onclick="myFunction1()">Try it</button>
<p id="A">Hello World!</p>
<p><b>Convert string to lower case:</b></p>
<button onclick="myFunction2()">Try it</button>
```

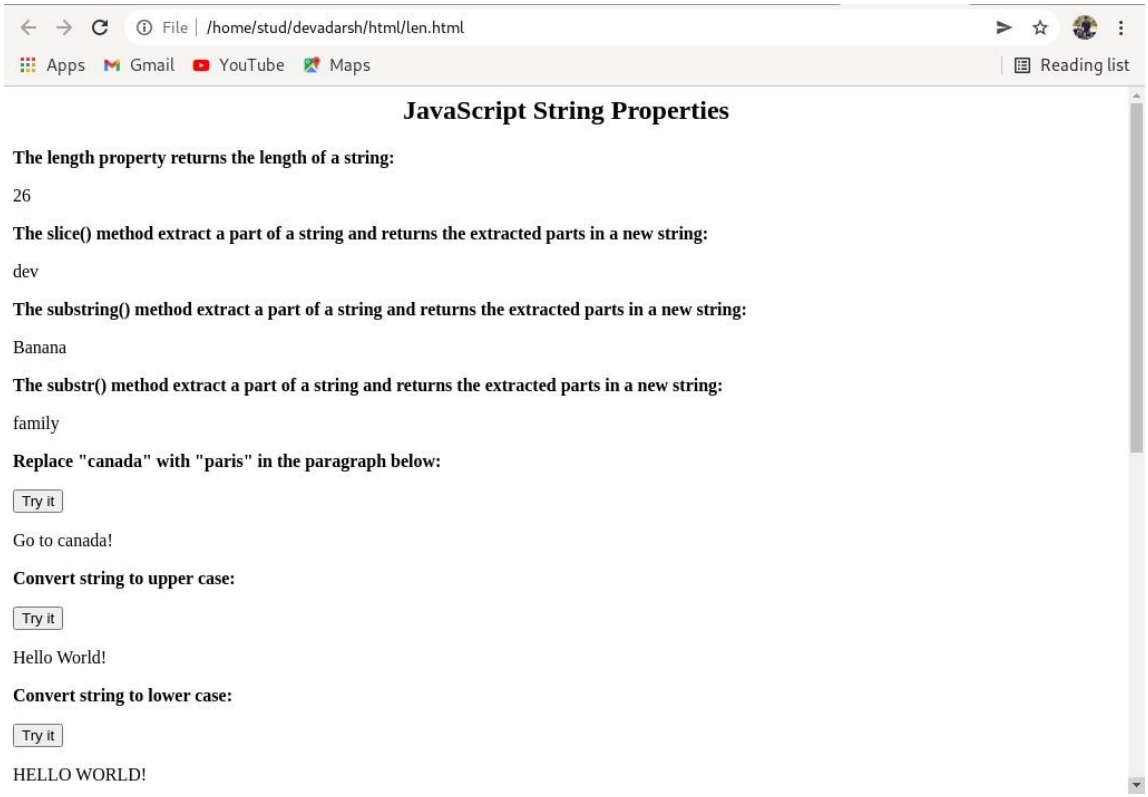
```
<p id="B">HELLO WORLD!</p>

<p><b>The concat() method joins two or more strings:<br> Devadarsh is the first string and </br>Jeevankumar is the first string and</b> </p>

<p id="C"></p>

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

<p id="D"></p>

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

<p id="E"></p>

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

<p id="F"></p>

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

<p id="G"></p>

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

<p id="H"></p>

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

<p id="I"></p>

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

<script>

let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

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

let str = "dev,deepa,kunju"; document.getElementById("demo1").innerHTML = str.slice(0,3);

let a = "Apple, Banana, Kiwi";
document.getElementById("demo2").innerHTML = a.substring(7,13);

let str1 = "friends, family, lover";

document.getElementById("demo3").innerHTML = str1.substr(9,6);
```

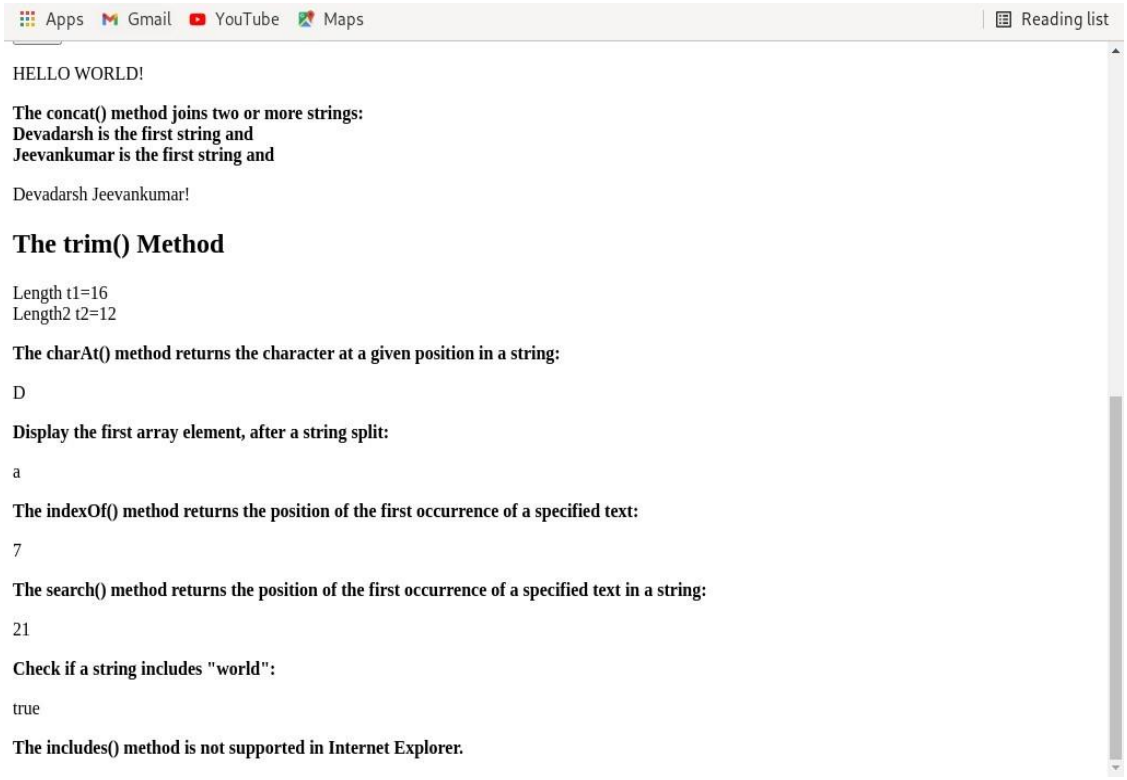
```
function myFunction() {
  let text = document.getElementById("demo4").innerHTML;
  document.getElementById("demo4").innerHTML =
text.replace("canada","paris");
}
function myFunction1() {   let text =
document.getElementById("A").innerHTML;
document.getElementById("A").innerHTML =
  text.toUpperCase();}
function myFunction2() {   let text =
document.getElementById("B").innerHTML;
document.getElementById("B").innerHTML =
  text.toLowerCase();}
let text1 = "Devadarsh"; let text2 = "Jeevankumar!";
let text3 = text1.concat(" ",text2);
document.getElementById("C").innerHTML = text3;
let t1 = "  Hello World!  "; let t2 = t1.trim();
document.getElementById("D").innerHTML = "Length t1=" + t1.length +
"<br>Length2 t2=" + t2.length;
var b = "DEV";
document.getElementById("E").innerHTML = b.charAt(0);
let c = "a,b,c,d,e,f"; const myArray = c.split(",");
document.getElementById("F").innerHTML = myArray[0];
let str2 = "Please locate where 'locate' occurs!";
document.getElementById("G").innerHTML = str2.indexOf("locate");
let str3 = "Please locate where 'college' occurs!";
document.getElementById("H").innerHTML = str3.search("college");
let text5 = "Hello world, welcome to the universe.";
document.getElementById("I").innerHTML = text5.includes("world");
</script>
</body>
```

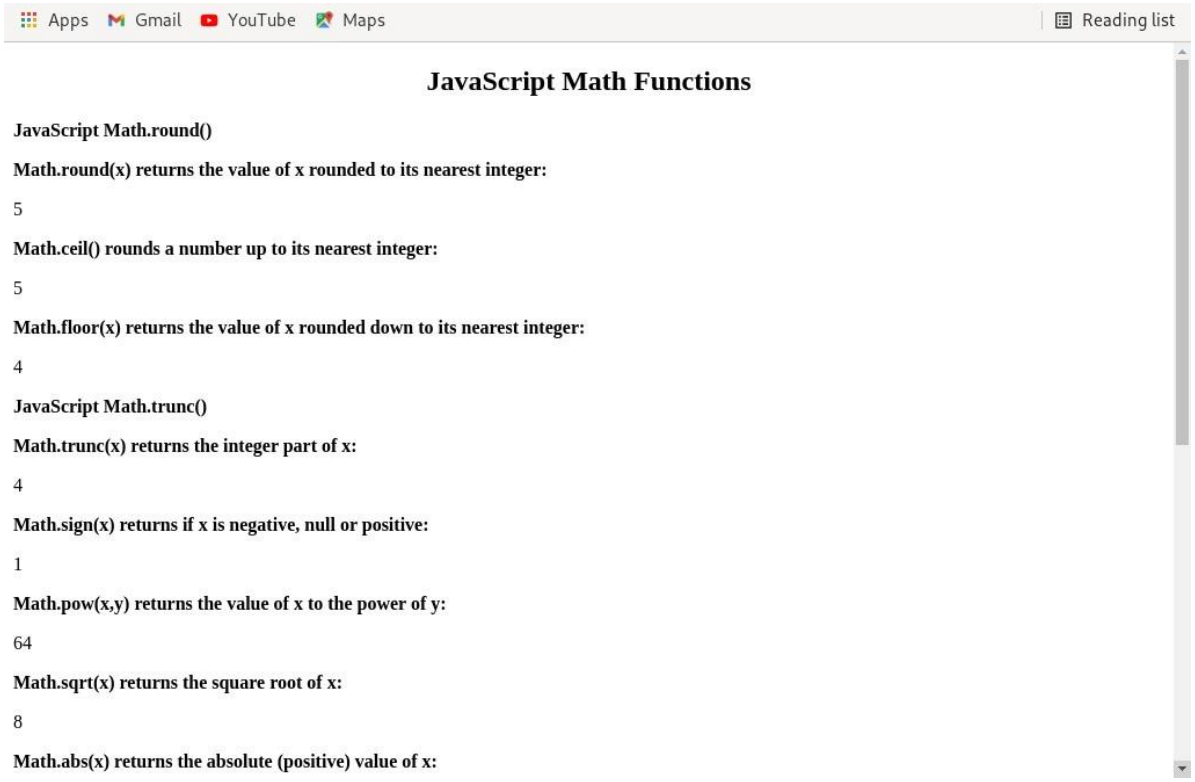
```
</html>
<!DOCTYPE html>
<html>
<body>
<center><h2>JavaScript Math Functions</h2></center>
<b>JavaScript Math.round()</b>
<p><b>Math.round(x) returns the value of x rounded to its nearest integer:</b></p>
<p id="demo"></p>
<p><b>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</b></p> <p id="demo1"></p>
<p><b>Math.floor(x) returns the value of x rounded <strong>down</strong> to its nearest integer:</b></p>
<p id="demo3"></p>
<b>JavaScript Math.trunc()</b>
<p><b>Math.trunc(x) returns the integer part of x:</b></p>
<p id="demo2"></p>
<p><b>Math.sign(x) returns if x is negative, null or positive:</b></p>
<p id="demo4"></p>
<p><b>Math.pow(x,y) returns the value of x to the power of y:</b></p>
<p id="demo5"></p>
<p><b>Math.sqrt(x) returns the square root of x:</b></p>
<p id="demo6"></p>
<p><b>Math.abs(x) returns the absolute (positive) value of x:</b></p>
<p id="demo7"></p>
<p><b>Math.sin(x) returns the sin of x (given in radians):</b></p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo8"></p>
```

```
<p><b>Math.cos(x) returns the cosine of x (given in radians):</b></p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo9"></p>
<p><b>Math.min() returns the lowest value in a list of arguments:</b></p>
<p id="demo10"></p>
<p><b>Math.max() returns the highest value in a list of arguments.</b></p>
<p id="demo11"></p>
<p><b>Math.random() returns a random number between 0 and 1:</b></p>
<p id="demo12"></p>
<p><b>Math.log() returns the natural logarithm of a number:</b></p>
<p id="demo13"></p>
<script> document.getElementById("demo").innerHTML = Math.round(4.5);
document.getElementById("demo1").innerHTML = Math.ceil(4.4);
document.getElementById("demo3").innerHTML = Math.floor(4.7);
document.getElementById("demo2").innerHTML = Math.trunc(4.7);
document.getElementById("demo4").innerHTML = Math.sign(4);
document.getElementById("demo5").innerHTML = Math.pow(8,2);
document.getElementById("demo6").innerHTML = Math.sqrt(64);
document.getElementById("demo7").innerHTML = Math.abs(-4.4);
document.getElementById("demo8").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
document.getElementById("demo9").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
document.getElementById("demo10").innerHTML = Math.min(0, 150, 30, 20, -8, -200);
document.getElementById("demo11").innerHTML = Math.max(0, 150, 30, 20, -8, -200); document.getElementById("demo12").innerHTML = Math.random();
document.getElementById("demo13").innerHTML = Math.log(3); </script>
</body>
</html>
```

OUTPUT


File | /home/stud/devadarsh/html/len.html
Apps
Gmail
YouTube
Maps
Reading list
JavaScript String Properties
The length property returns the length of a string:
26
The slice() method extract a part of a string and returns the extracted parts in a new string:
dev
The substring() method extract a part of a string and returns the extracted parts in a new string:
Banana
The substr() method extract a part of a string and returns the extracted parts in a new string:
family
Replace "canada" with "paris" in the paragraph below:
Try it
Go to canada!
Convert string to upper case:
Try it
Hello World!
Convert string to lower case:
Try it
HELLO WORLD!


Apps
Gmail
YouTube
Maps
Reading list
HELLO WORLD!
The concat() method joins two or more strings:
Devadarsh is the first string and
Jeevankumar is the first string and
Devadarsh Jeevankumar!
The trim() Method
Length t1=16
Length2 t2=12
The charAt() method returns the character at a given position in a string:
D
Display the first array element, after a string split:
a
The indexOf() method returns the position of the first occurrence of a specified text:
7
The search() method returns the position of the first occurrence of a specified text in a string:
21
Check if a string includes "world":
true
The includes() method is not supported in Internet Explorer.


Apps
Gmail
YouTube
Maps
Reading list
JavaScript Math Functions
JavaScript Math.round()
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
JavaScript Math.trunc()
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
Math.sqrt(x) returns the square root of x:
8
Math.abs(x) returns the absolute (positive) value of x:

EXPERIMENT NO:8

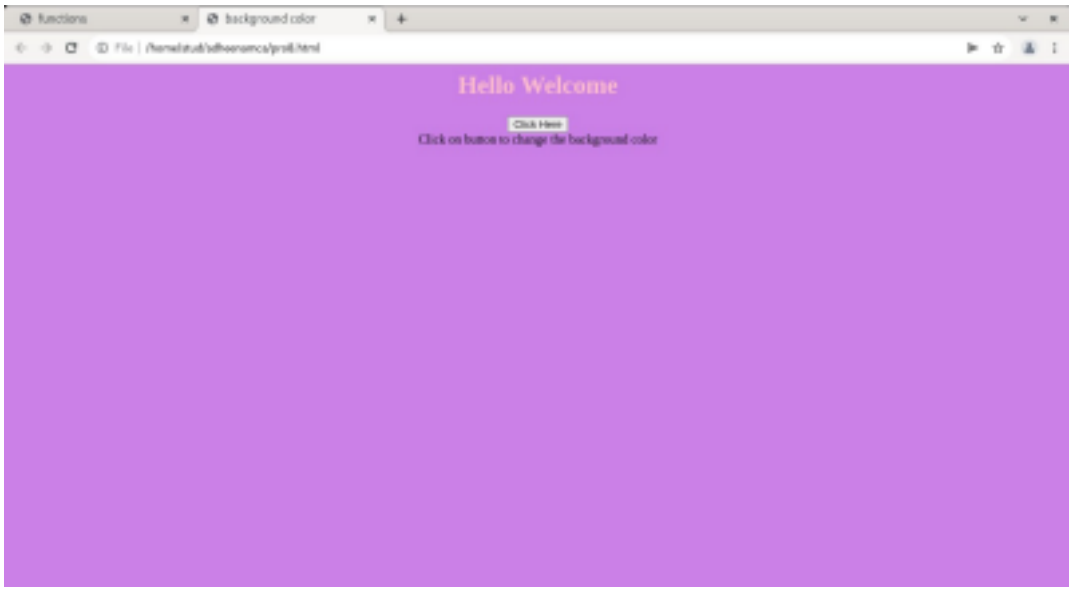
AIM

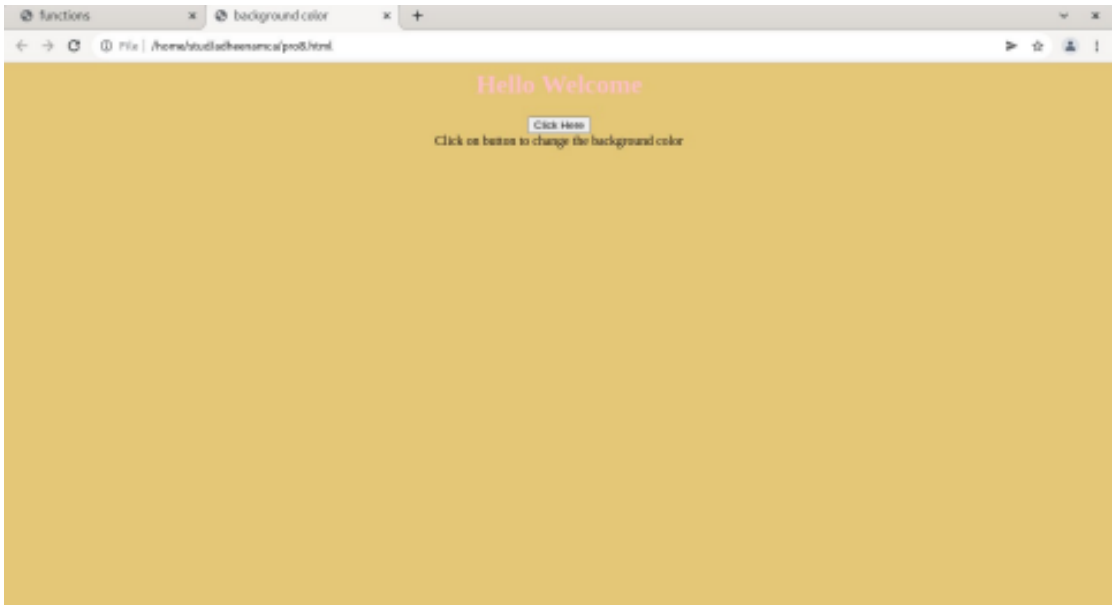
Create a HTML page to change the background color for every click of a button using JavaScript Event Handling

PROGRAM CODE

```
<html>
<head>
<title>
background color
</title>
</head>
<body style = "text-align:center;">
<h1 style = "color:pink;" >
 Hello 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


functions
background color
Hello Welcome
Click Here
Click on button to change the background color


functions
background color
Hello Welcome
Click Here
Click on button to change the background color

EXPERIMENT NO:9

AIM

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

PROGRAM 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: #E6E6E6;
}
</style>
</head>

<body>
<b><u>CALENDAR</u></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 me</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) { // sunday, last day of week -> newrow
table += '</tr><tr>';
}

d.setDate(d.getDate() + 1);
}

if (getDay(d) != 0) {
for (let i = getDay(d); i < 7; i++) {
table += '<td>*</td>';
}
}
// close the table
table += '</tr></table>';
document.getElementById("calendar").innerHTML = table;
}

createCalendar(calendar, year, month);
</script>
</body>
</html>
```

OUTPUT

CALENDAR

Enter The year : 2011

Enter The Month: 12

Click me

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	*

EXPERIMENT NO:10

AIM

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

PROGRAM CODE

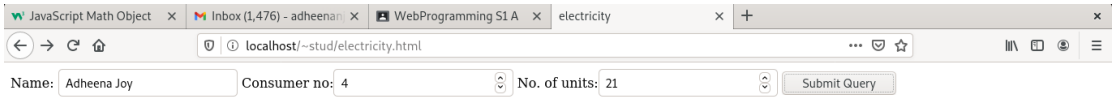
electricity.html

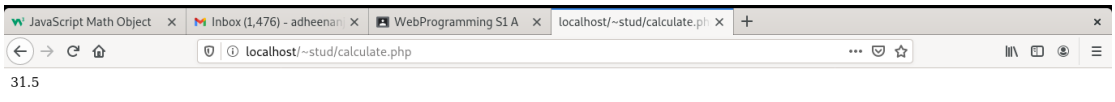
```
<html>
<head>
<title>electricity</title>
</head>
<body>
<form action="calculate.php" method="post">
Name: <input type="text" name="fname">
Consumer no:<input type="number" name="consumer">
No. of units:<input type="number" name="units">
<input type="submit">
</form>
</body>
</html>
```

calculate.php

```
<?php
$p=$_POST["units"];
$s=1.5;
$amount=$s*$p;
echo $amount;
?>
```

OUTPUT


JavaScript Math Object
Inbox (1,476) - adheenan
WebProgramming S1 A
electricity
localhost/~stud/electricity.html
Name: Adheena Joy
Consumer no: 4
No. of units: 21
Submit Query


JavaScript Math Object
Inbox (1,476) - adheenan
WebProgramming S1 A
localhost/~stud/calculate.ph
localhost/~stud/calculate.php
31.5

EXPERIMENT NO:11

AIM

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

PROGRAM CODE

```
<?php
$name=array("Dev","Anil","Akash"); asort($name);
 echo "sorted using asort"; echo "<br>";
 print_r($name);
echo "<br>";
 echo "<br>"; arsort($name);
echo "sorted using arsort";
 echo "<br>";
print_r($name); ?>
```

OUTPUT

```
sorted using asort
Array ( [2] => Akash [1] => Anil [0] => Dev )

sorted using arsort
Array ( [0] => Dev [1] => Anil [2] => Akash )
```

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.

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

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.

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>
```

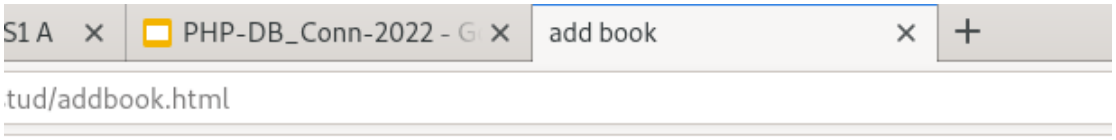
searchl.php

```
<?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

BOOK INFORMATION SYSTEM
Add Book
Search Book



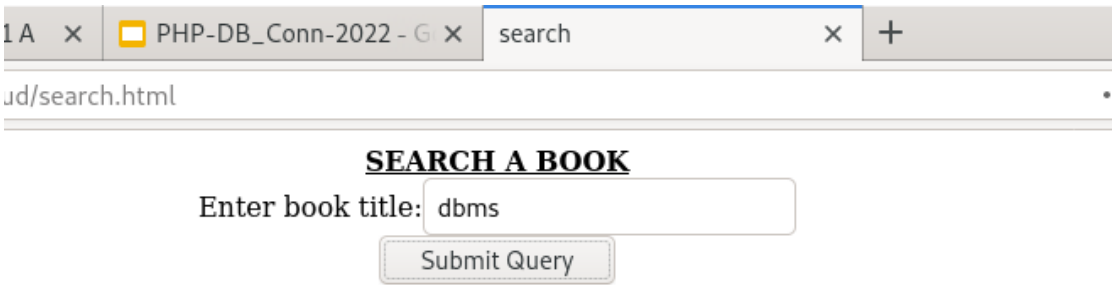
Enter Book Details

Access Number: 1
Title: dbms
Author: c.k gopalan
Edition: third
Publisher: hfc
Submit Query Reset

connected
New row added

```
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]>
```



connected 1:dbms:c.k gopalan:third:hfc

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.

PROGRAM CODE

airline.html

```
<html>

<head>

<title>book</title>

</head>

<body align="center"><u>AIRINDIA<br>

<a href="add.html">Add airline details</a><br>

<a href="searchair.html">Search airline</a><br>

</body>

</html>
```

add.html

```
<html><head>

<title>add book</title></head>

<body>

<form name="frm1" action="add1.php" method="POST">

<center><b><u>Airline Details</u></b><br>

Airline Number:<input type="text" name="number"><br>

Name:<input type="text" name="name"><br>

Time:<input type="text" name="time"><br>

Source:<input type="text" name="source"><br>
Destination:<input type="text" name="dest"><br>

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

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

</form>

</body>

</html>
```

add1.php

```
<?php
$number=$_POST['number'];
$name=$_POST['name'];
$time=$_POST['time'];
$source=$_POST['source'];
$dest=$_POST['dest'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo "Failed to connect"; }
else
{ echo "connected"; }
$sql="INSERT INTO airline
VALUES($number,'$name','$time','$source','$dest')";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

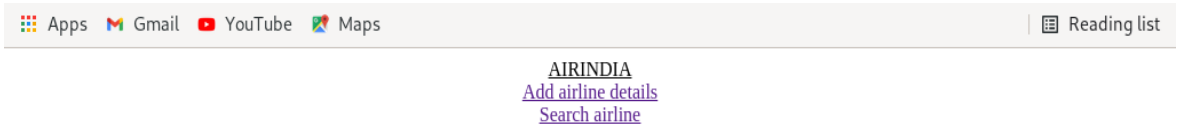
searchair.html

```
<html>

<head>

<title>search</title>

</head>

<body>

<form name="frm2" action="search1.php"
method="POST">

<center>

<b><u>SEARCH AIRLINE</u></b><br>

Enter The source:<input type="text" name="sou"><br>
Enter The destination:<input type="text" name="des"><br>

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

</center>

</form>

</body>

</html>
```

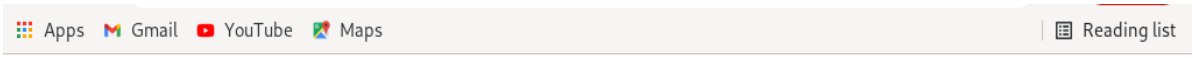
search1.php

```
<?php
$sou=$_POST['sou'];
$des=$_POST['des'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline where
source='$sou' and destination='$des'";
if($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

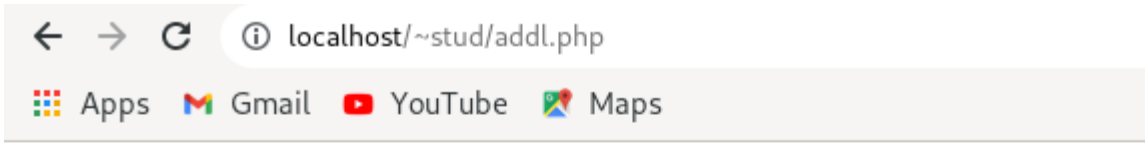


AIRINDIA
Add airline details
Search airline

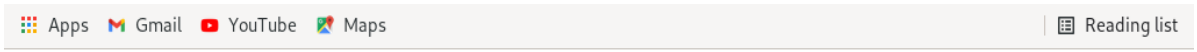


Airline Details

Airline Number: 1123
Name: airkerala
Time: 5pm
Source: kerala
Destination: mumbai
Submit Reset Action page



connected
New row added

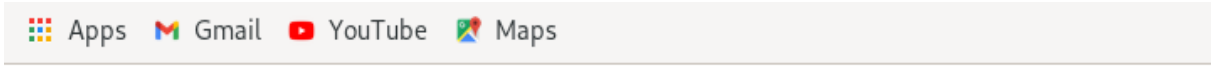


SEARCH AIRLINE

Enter The source: kerala

Enter The destination: mumbai

Submit



connected 1123:airkerala:5pm:kerala:mumbai