FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

Name: **ATHIRA RAMACHANDRAN**

Branch: **MASTER OF COMPUTER APPLICATIONS**

Semester: **1** **Batch: A** **Roll No: 42** **Reg No: FIT21MCA-2042**

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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CERTIFICATE

This is to certify that this is the Bonafide record of the Practical work done by Ms. ***ATHIRA RAMACHANDRAN (FIT21MCA-2042)*** *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 — Signature of H.O.D

Name: — Name:

Date:

Date of University practical examination ……

Signature of Internal Examiner — Signature of External Examiner

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Experiment Number:1

Aim:

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

Program code:

```
<html>
<head>
<title>Native place</title>
</head>
<body>
<body bgcolor="pink">
<h1><center><font face="arial"size="+2"color="purple"weight="400"><ui><i>MY
VILLAGE</i></u></font></center></h1>
<h4><font face="arial"
size="+1"color="blue"weight="300">KADALASSERY</font></h4>
<h4>A small village in<u>Thrissur District,</u>Kerala</h4>
<br>
<h2><ol type>
<li>Neighbouring villages</li></h2>
<h3><ul type=circle>
<li>Urakam</li>
<li>Puthukkad</li></ol>
<br>
<p align="center"><h4>My native place is<b><i><u><font
face="arial"size="+1"color="purple"weight="200">KADALASSERY.</font></i></b
></u>It is a beautiful village.In our village there are two
schools,Temples.....etc.People live together with a harmoney.The village is rich with
birds,trees,animals....A family health center is located in our village.</h4></p>
<img src="thrissur.pmg"align="right"width="200"height="150">
<h6><ul type=bullets>
<li>KMLPS School</li>
<li>AUPS Pallissery</li>
</ul></h6>
</body>
</html>
```

output:

File | /home/stud/Athira42/native.html

MY VILLAGE

KADALASSERY

A small village in Thrissur District,Kerala

1. Neighbouring villages

- **Urakam**
- **Puthukkad**

My native place is *KADALASSERY*.It is a beautiful village.In our village there are two schools,Temples.....etc.People live together with a harmoney.The village is rich with birds,trees,animals....A family health center is located in our village.

- **KMLPS School**
- **AUPS Pallissery**

Experiment Number:2

Aim:

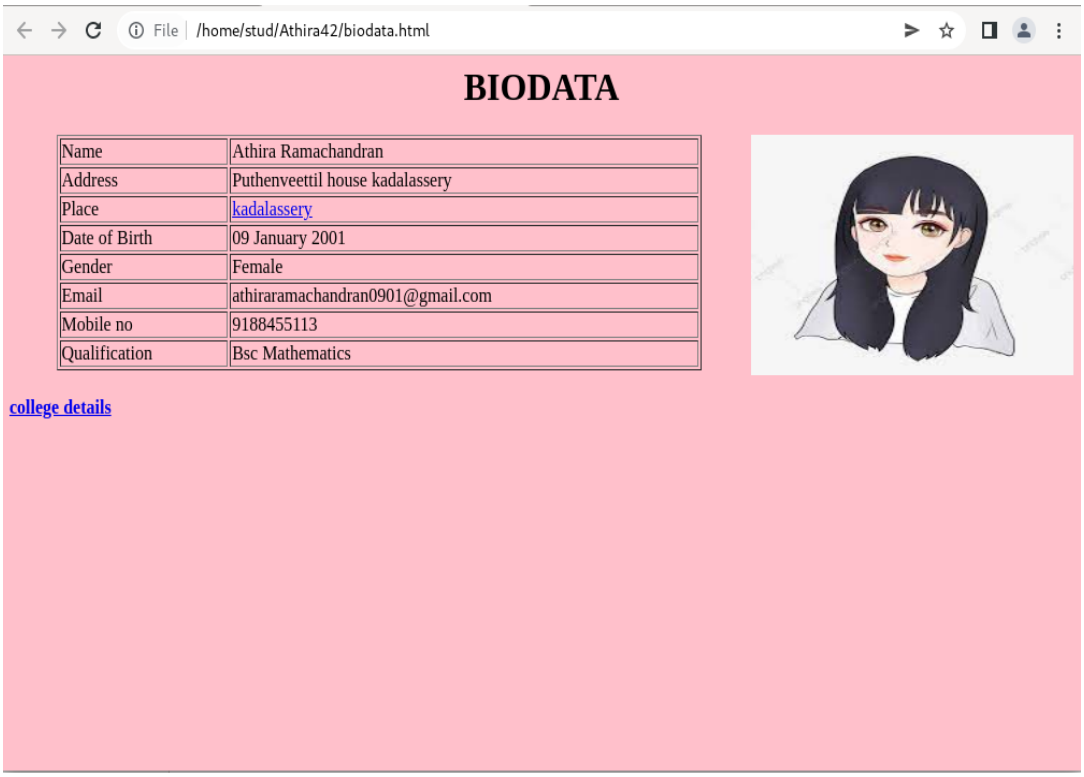
Your biodata by using the html tags for hyperlinks,images,table,frame and fonts.Make it attractive by using the various colour elements.The design should contain a minimum of 2 hyperlinks.

Program code:

```
<html>
<head>
<title>Biodata</title>
<body>
<tr>

<td>Name</td>
<td>Athira Ramachandran</td>
</tr>

<tr>
<td>Address</td>
<td>Puthenveettil house kadalassery</td>
</tr>

<tr>
<td>Place</td>
<td><a href="native.htm">kadalassery</a></td>
</tr>

<td>Date of Birth</td>
<td>09 January 2001</td>
</tr>

<td>Gender</td>
<td>Female</td>
</tr>

<tr>
<td>Email</td>
<td>athiraramachandran0901@gmail.com</td>
</tr>
```

```
<tr>
<td>Mobile no</td>
<td>9188455113</td>
</tr>

<tr>
<td>Qualification</td>
<td>Bsc Mathematics</td>
</tr>
</table>

<h4><a href="bsc.htm">college details</a></h4>
</body>
</html>
```

output:



//bsc.htm

File | /home/stud/Athira42/bsc.htm

Bsc Mathematics

Sakthan Thampuran college,Thrissur

The city of Thrissur is indebted to Sakthan Thampuran, the mighty ruler of erstwhile Cochin state for its unique achievements in the areas of business, culture and education. Even as it has earned the sobriquet "Cultural Capital of Kerala" over the years, it is a home for myriad institutions of excellence, and thanks to him . True, numerous institutions organizations and locations in the city have been named after the great ruler. But among them Sakthan Thampuran College of Mathematics and Arts stands out as a fitting monument to the great ruler. For, it is a striking paradigm of the inextricable link between education and culture. The college celebrates its Silver Jubilee in the academic year 2010 - 2011. The meteoric rise of this college during the past 32 years could be imputed to the enviable helmsmanship of Sri Ajith Kumar Raja, also scion in the royal family. A maths - wizard, his teaching carrier had a modest beginning with only one student. Taking inspiration from his guru Prof.M.K.Menon, he took up on the new path. Later he collaborated with his disciple sri. Joju Tharaken to form an institution in the real form. Today for more than 1.8 lakh of students who are well placed in the different walks of life

SYLLABUS

Various core courses and topics that would be covered in the B.Sc Mathematics course are: ***Algebra. Differential Calculus & Vector Calculus. Integral Calculus & Trigonometry. Vector Analysis & Geometry. Advanced Calculus. Mathematical Methods.***

//native.htm

File | /home/stud/Athira42/native.htm

MY VILLAGE

KADALASSERY

A small village in Thrissur District,Kerala

1. Neighbouring villages

- **Urakam**
- **Puthukkad**

My native place is *KADALASSERY.* It is a beautiful village.In our village there are two schools,Temples.....etc.People live together with a harmoney.The village is rich with birds,trees,animals....A family health center is located in our village.

- **KMLPS School**
- **AUPS Pallissery**

Experiment Number:3

Aim:

Create an application form for MCA course in FISAT.

Program code:

```
<html>
<head>
<title>Application form</title>
</head>
<body text=white>
<div style="background-color:red">

<h2><center><img src=fisat.jpg height=80 width=80>FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY<center></h2>
<h3>Application for admission to Master of Computer Applications-Management Quota</h3>
<hr></div>
<font color=black>
<form action=application.php method=post>
<div style="background-color:cyan"><p><b><font color=white size=4>Basic Details</font></b></p><br></div>
<p>Name   
<input type=textfield></p><br>
<p>Address 
<textarea></textarea></p><br>
<p>City       
<input type=textfield></p><br>
<p>State    
<input type=textfield></p><br>
```

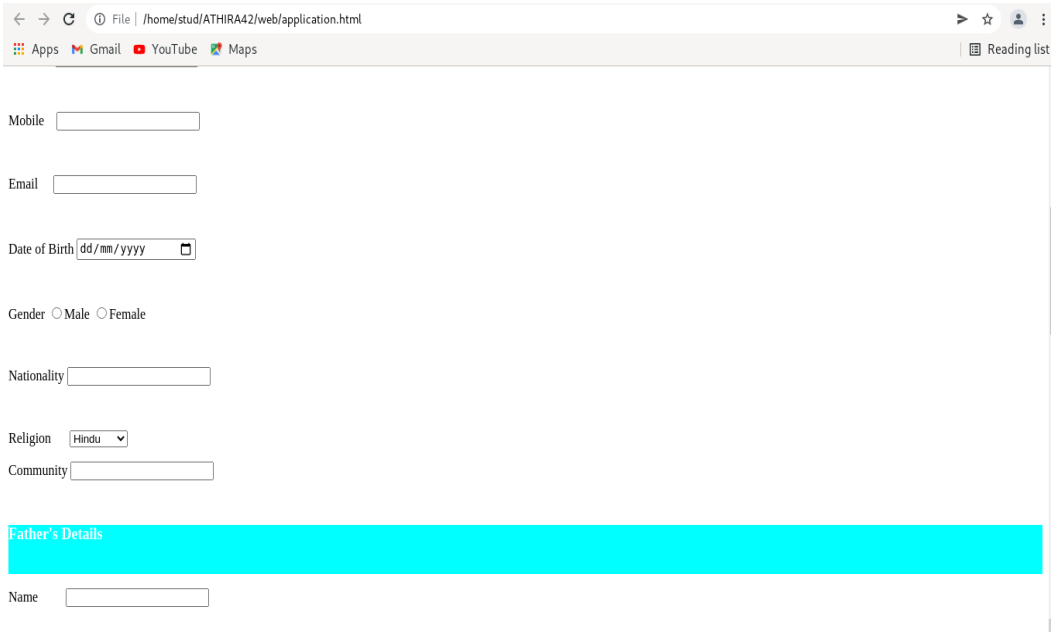
```
<p>Country
<input type=textfield></p><br>
<p>Pincode 
<input type=textfield></p><br>
<p>Mobile   
<input type=textfield></p><br>
<p>Email    
<input type=textfield></p><br>
<p>Date of Birth

<input type=date></p><br>
<p>Gender
<input type=radio name=gender>Male

<input type=radio name=gender>Female</p><br>
<p>Nationality
<input type=textfield></p><br>
<p>Religion     
<select>
<option value=Hindu>Hindu
<option value=Christian>Christian
<option value=Muslim>Muslim
<option value=Others>Others
</select><br>
<p>Community
<input type=textfield></p><br>
<div style="background-color:cyan"><p><b><font color=white size=4>Father's
Details</font></b></p><br></div>
<p>Name        
<input type=textfield></p><br>
```

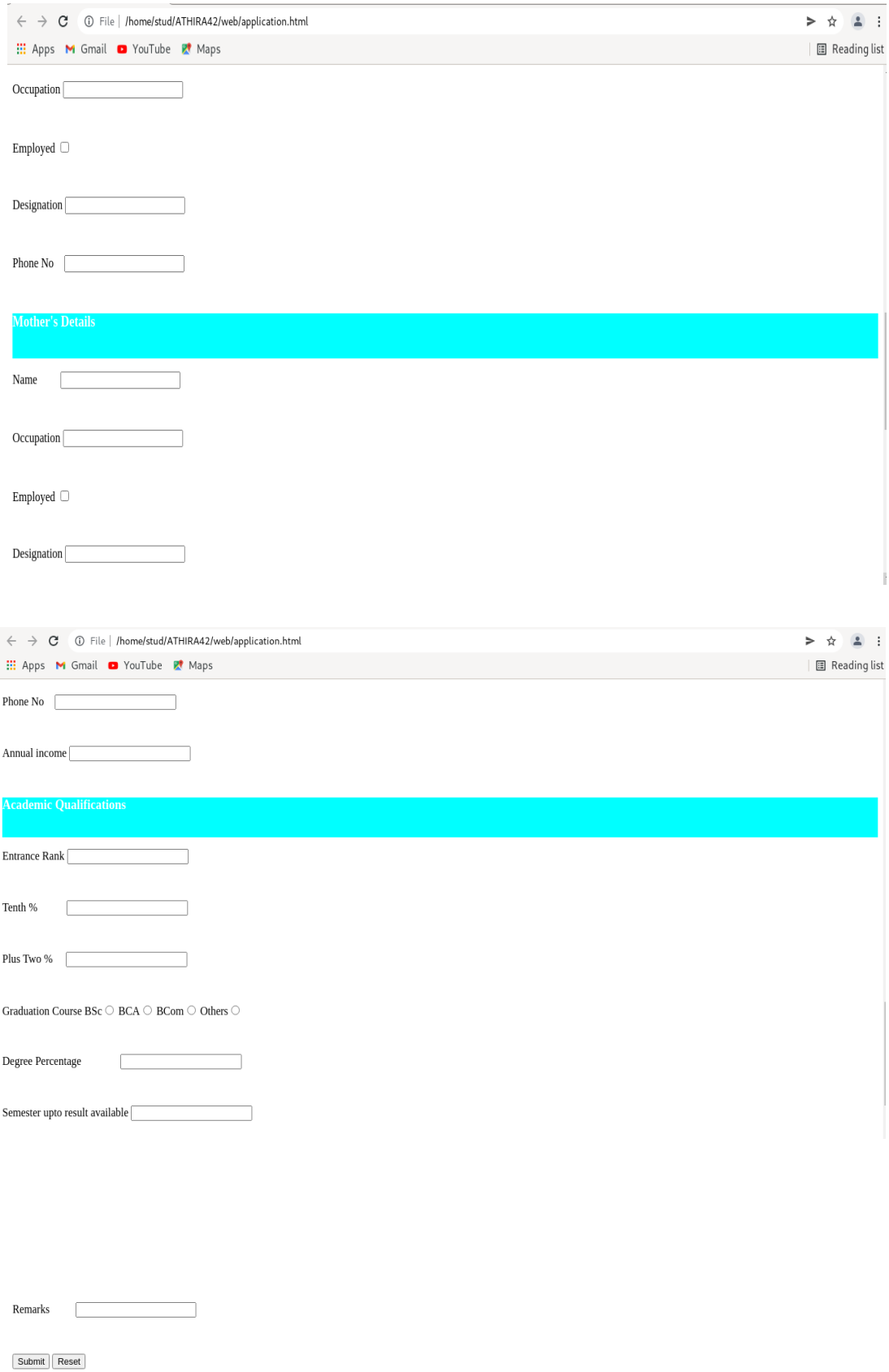
```
<p>Occupation
<input type=textfield></p><br>
<p>Employed
<input type=checkbox></p><br>
<p>Designation
<input type=textfield></p><br>
<p>Phone No   

<input type=textfield></p><br>
<div style="background-color:cyan"><p><b><font color=white size=4>Mother's Details</font></b></p><br></div>
<p>Name        
<input type=textfield></p><br>
<p>Occupation

<input type=textfield></p><br>
<p>Employed
<input type=checkbox></p><br>
<p>Designation
<input type=textfield></p><br>
<p>Phone No   
<input type=textfield></p><br>
<p>Annual income
<input type=textfield></p><br>
<div style="background-color:cyan"><p><b><font color=white size=4>Academic Qualifications</font></b></p><br></div>
<p>Entrance Rank
<input type=textfield></p><br>
<p>Tenth %          
<input type=textfield></p><br>
```

```
<p>Plus Two %    
<input type=textfield></p><br>
<p>Graduation Course
BSc<input type=radio name="Graduation Course" value=BSc>
BCA<input type=radio name="Graduation Course" value=BCA>

BCom<input type=radio name="Graduation Course" value=BCom>
Others<input type=radio name="Graduation Course" value=Others></p><br>
<p>Degree
Percentage          
    
<input type=textfield></p><br>
<p>Semester upto result available
<input type=textfield></p><br>
<p>Remarks         
<input type=textfield></p><br>
<p><input type=submit value=Submit>
<input type=reset value=Reset></p>
</form></font>
</body>
</html>
```

Output:

File | /home/stud/ATHIRA42/web/application.html
Apps Gmail YouTube Maps
Reading list
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
Application for admission to Master of Computer Applications-Management Quota
Basic Details
Name
Address
City
State
Country
Pincode


File | /home/stud/ATHIRA42/web/application.html
Apps Gmail YouTube Maps
Reading list
Mobile
Email
Date of Birth dd/mm/yyyy
Gender Male Female
Nationality
Religion Hindu
Community
Father's Details
Name


File | /home/stud/ATHIRA42/web/application.html
Apps Gmail YouTube Maps Reading list
Occupation
Employed
Designation
Phone No
Mother's Details
Name
Occupation
Employed
Designation
File | /home/stud/ATHIRA42/web/application.html
Apps Gmail YouTube Maps Reading list
Phone No
Annual income
Academic Qualifications
Entrance Rank
Tenth %
Plus Two %
Graduation Course BSc BCA BCom Others
Degree Percentage
Semester upto result available
Remarks
Submit Reset

Experiment Number:4

Aim:

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

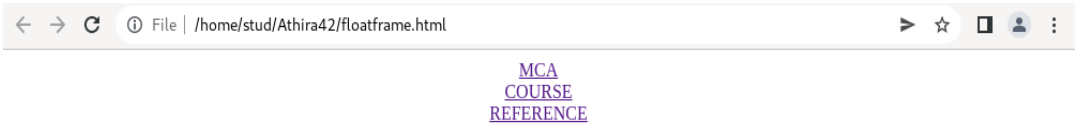
Program code:

```
<html><head><title>Navigation</title></head>
<body><center>
<a href="MCA.html"target="mainF">MCA</a><br>
<a href="course.html"target="mainF">COURSE</a><br>
<a href="reference.html"target="mainF">REFERENCE</a><br>
</center>
</body>
</html>
```

Program code:

```
<html>
<head>
<title>
Frames
</title>
</head>
<frameset cols="400,*">
<frame name="navF"src="floatframe.html">
<frame name="mainF"src="course.html">
</frameset>
</html>
```

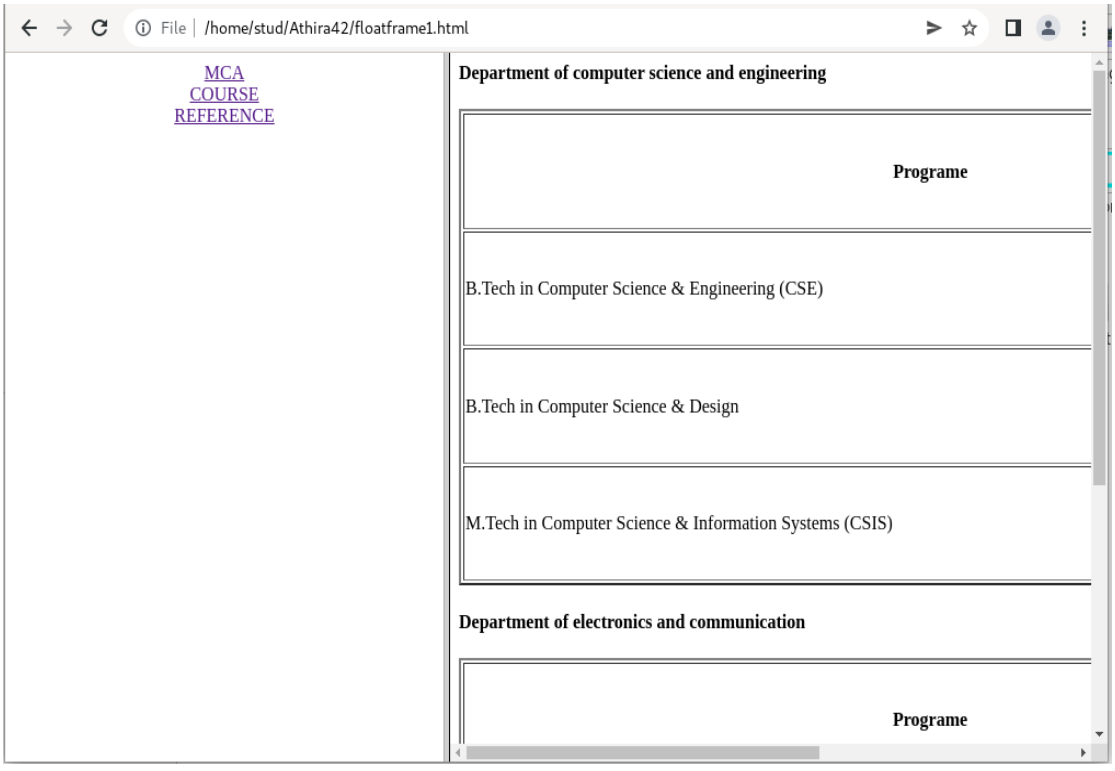
Output:



//course.html

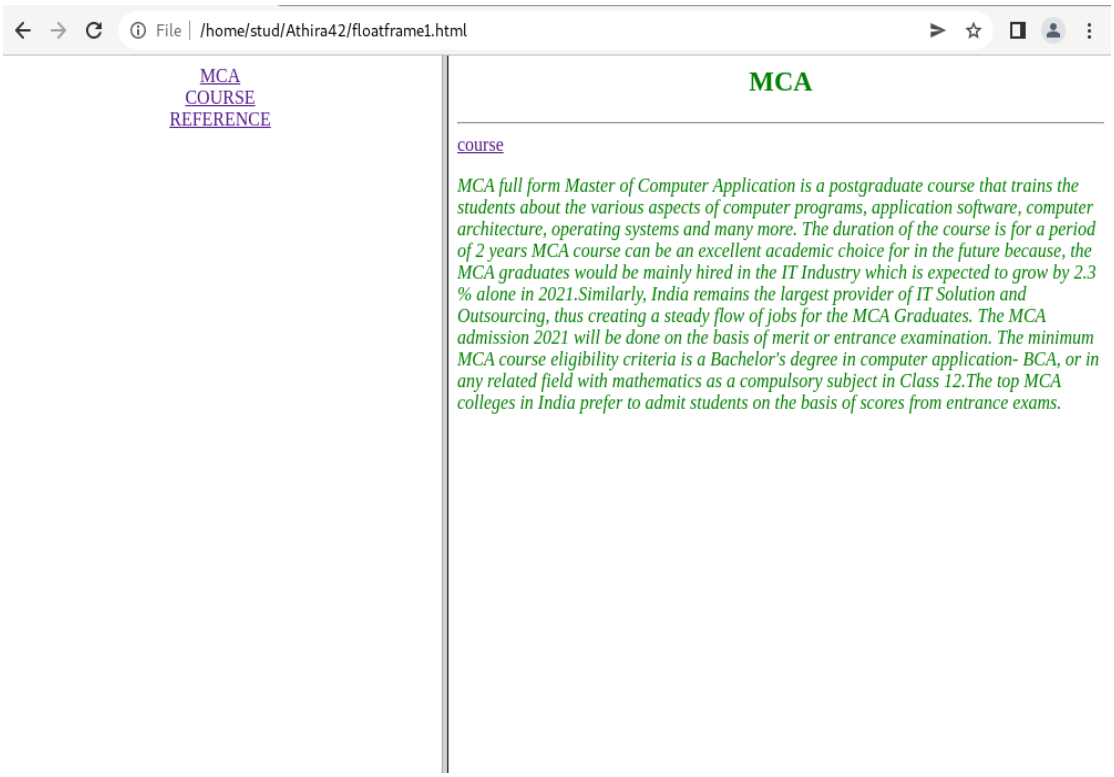
```
<html>
<head><title></title></head>
<body>
<h4>Department of computer science and engineering</h4>

<table border="2" width="1000" height="400">
<tr>
<th>Programe </th>
<th>duration</th>
</tr>
<tr>
<td> B.Tech in Computer Science & Engineering (CSE)  </td>
<td>4 yrs</td>
</tr>
<tr>
<td> B.Tech in Computer Science & Design </td>
<td>4 yrs</td>
</tr>
<tr>
<td> M.Tech in Computer Science & Information Systems (CSIS) </td>
<td>2 yrs</td>
</tr>
</table>
```

```
<h4>Department of electronics and communication</h4>
<table border="2" width="1000" height="400">
<tr>
<th>Programe </th>
<th>duration</th>
</tr>
<tr>
<td>  B.Tech in Electronics & Communication Engineering (ECE)   </td>
<td>4 yrs</td>
</tr>
<tr>
<td>  M.Tech in VLSI & Embedded Systems </td>
<td>2 yrs</td>
</tr>
<tr>
<td>  M.Tech in Automotive Electronics </td>
<td>2 yrs</td>
</tr>
</body>
</html>
```



//MCA.html

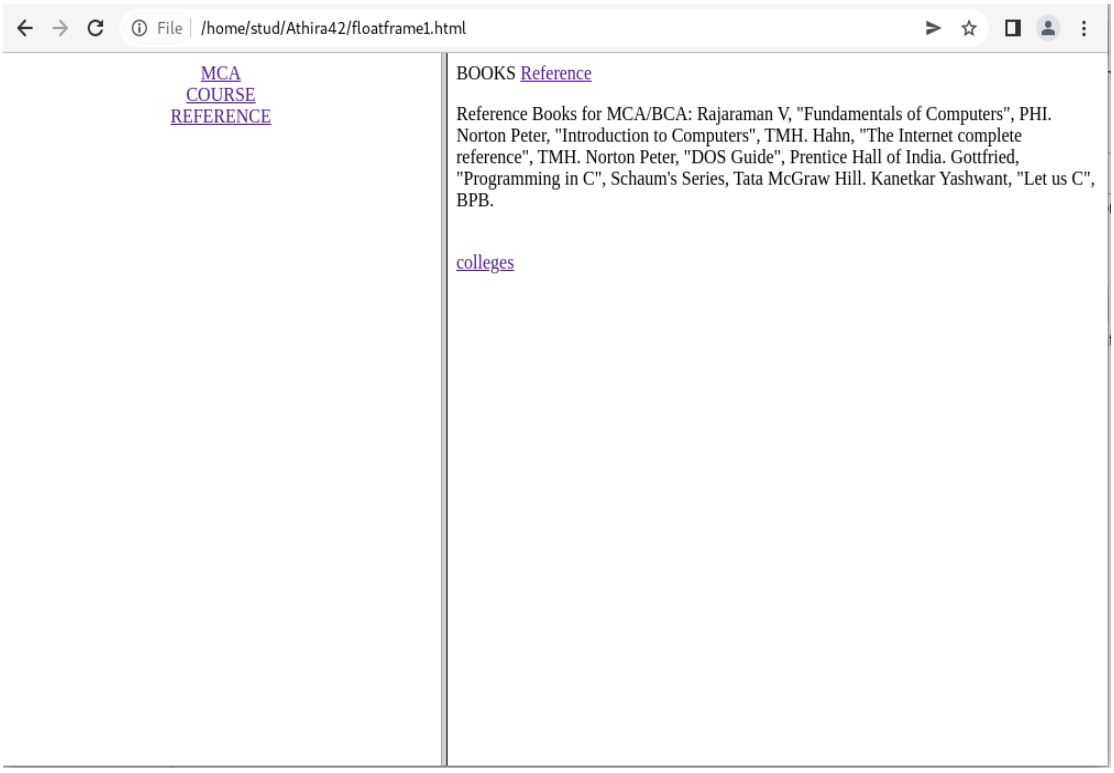
```
<html>
<head>
<title>MCA COURSE</title>
</head>

<body text=green>
<div style="bg color:yellow">
<h2><center>MCA</center></h2>

<hr>

<a href="https://www.collegedekho.com/courses/mca/">course</a>
<p><i>MCA full form  Master of Computer Application is a postgraduate course that trains the students about the various aspects of computer programs, application software, computer architecture, operating systems and many more. The duration of the course is for a period of 2 years

MCA course can be an excellent academic choice for in the future because, the MCA graduates would be mainly hired in the IT Industry which is expected to grow by 2.3 % alone in 2021.Similarly, India remains  the largest provider of IT Solution and Outsourcing, thus creating a steady flow of jobs for the MCA Graduates.

The MCA admission 2021 will be done on the basis of merit or  entrance examination. The minimum MCA course eligibility criteria is a Bachelor's degree in co
mputer application- BCA, or in any related field with mathematics as a compulsory subject in Class 12.The top MCA colleges in India prefer to admit students on the basis of scores from entrance exams.</i></p>

</html>
```



//reference.html

```
<html>
<head>
<title>Details</title>
</head>
<tr>
<td>BOOKS</td>
<a href="https://www.google.com/search?client=firefox-b-
e&q=mca+reference+books">Reference</a>
<p>

Reference Books for MCA/BCA:

   Rajaraman V, "Fundamentals of Computers", PHI.
   Norton Peter, "Introduction to Computers", TMH.
   Hahn, "The Internet complete reference", TMH.
   Norton Peter, "DOS Guide", Prentice Hall of India.
   Gottfried, "Programming in C", Schaum's Series, Tata McGraw Hill.
   Kanetkar Yashwant, "Let us C", BPB.
   </p>
<br>
```

<a href="https://www.google.com/search?q=mca+colleges+in+kerala&client=firefox-b-e&sxsrf=AOaemvIsIy7TR65UT0BmaqVi2l9IWvmzaw%3A1638175910688&ei=ppSkYb2zKf6Y4-EPnb2J0AY&oq=mca+&gs_lcp=Cgdnd3Mtd2l6EAEYCDIECCMQJzIECCMQJzIECCMQJzIICAAQgAQQsQMyBAgAEEMyDQgAEIAEEIcCELEDEBQyBAgAEEMyCAgAELEDEIMBMgUIABCABDIECAAQQzoHCAAQRxCwAzoGCAAQFhAeOgUILhCABDoHCAAQsQMQQ0oFCDwSATJKBAhBGABKBAhGGABQiQhY2z1ggF9oAnACeACAAXCIAc0MkgEDNy45mAEAoAEByAEIwAEB&sclient=gws-wiz">colleges</a>



Experiment Number:5

Aim:

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

Program Code:

//text.css

code:

```
body
{
background-color:skyblue;
}
h1{
color:white;
margin-left:10px;
}
p{
color:red;
margin-left:20px;
}
```

```
//int.html

<html>
<head>
<style>
body {
  background-color:skyblue;
}

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

<h1>Federal Institute of Science And Technology</h1>
<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). 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
```

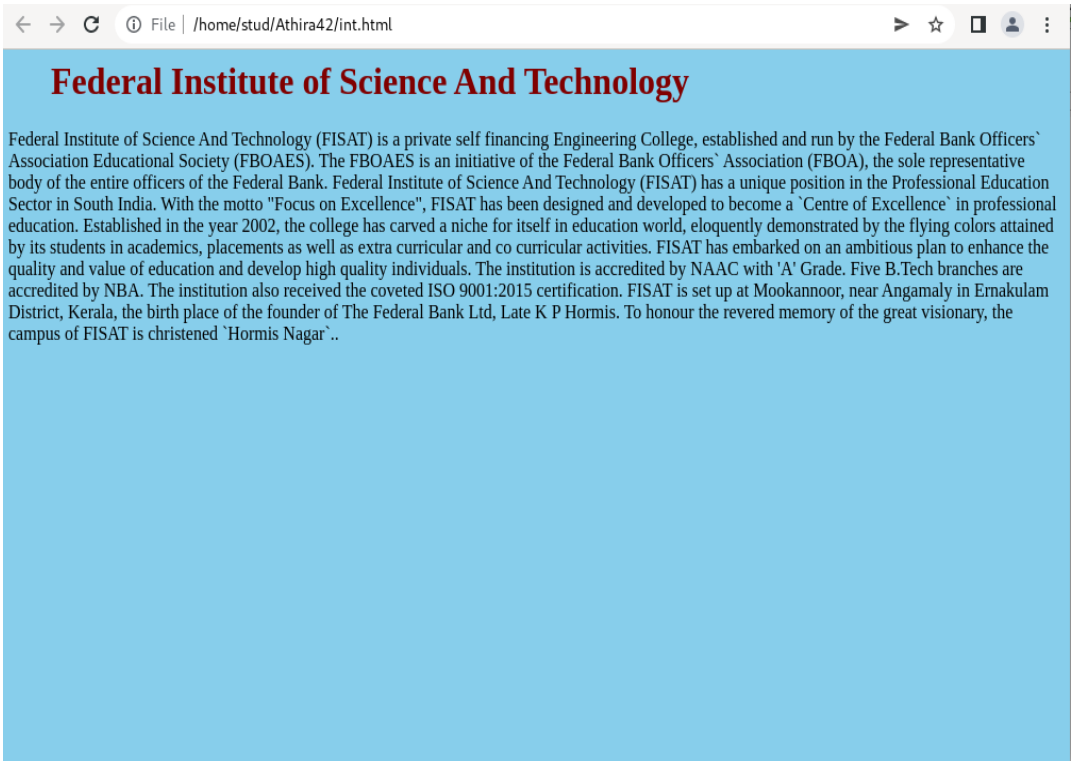
NAAC with 'A' Grade. Five B.Tech branches are accredited by NBA. The institution also received the coveted ISO 9001:2015 certification.

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`..</p>

</body>

</html>

output:

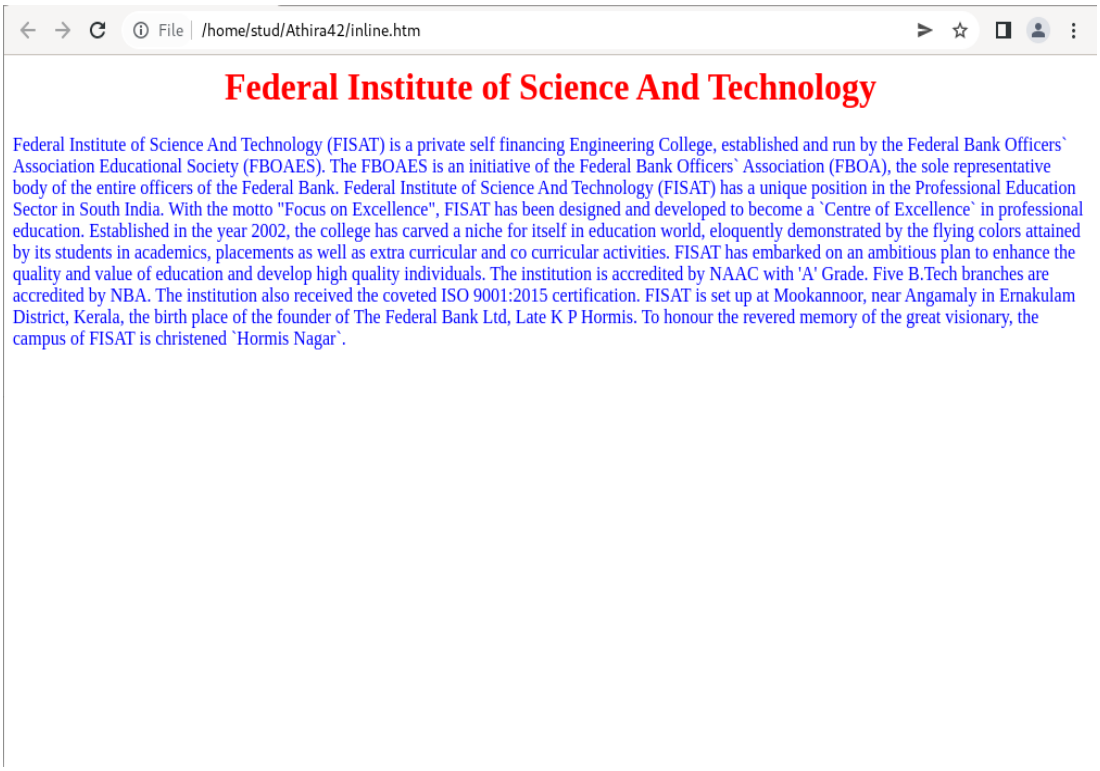


//inline.html

code:

```
<html>
<body>
<h1 style="color:red;text-align:center;">
Federal Institute of Science And Technology</h1>
<p style="color:blue;">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.
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`. </p>
</body>
</html>
```

Output:



//internal.html

code:

```
<html>
<head>
<style>
body {
  background-color: linen;
}
h1 {
  color: maroon;
  margin-left: 40px;
}
```

//external.html

code:

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

<h1>Federal Institute of Science And Technology</h1>
<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). 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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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.
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</body>
</html>
```
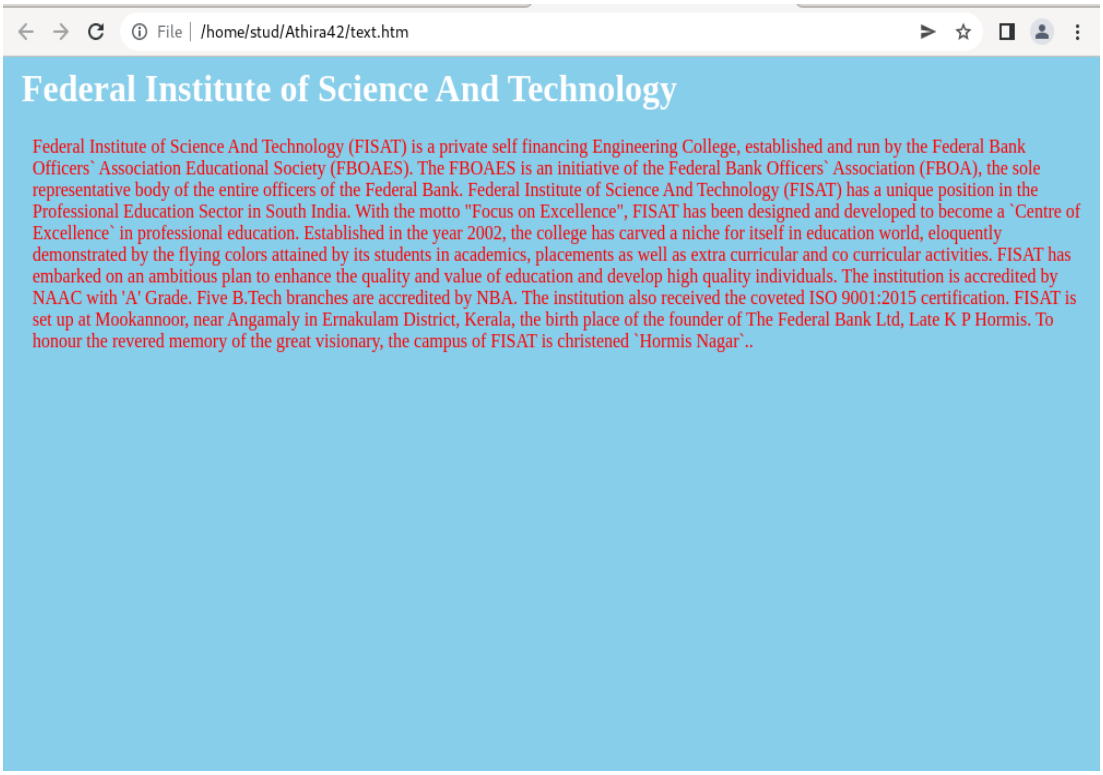

Output:


File | /home/stud/Athira42/text.htm
Federal Institute of Science And Technology
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. 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`..

Experiment Number:6

Aim:

Create an HTML registration form and to validate the form using javascript.

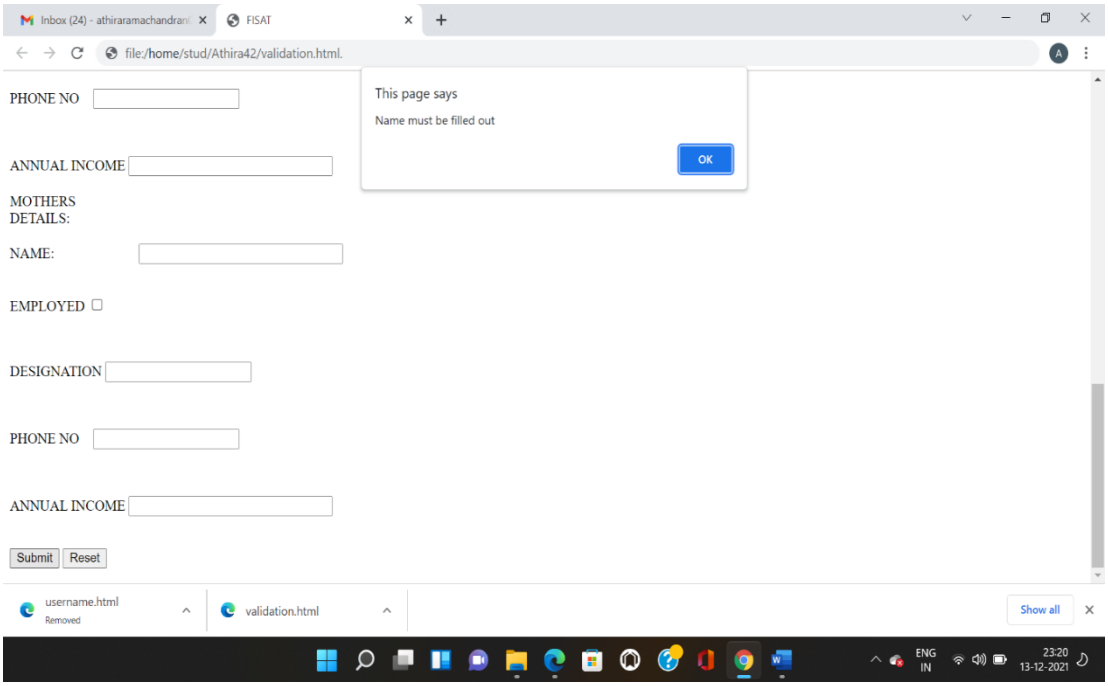
Program Code:

```
<html>

<head><style type="text/css">
        label
        {
        width:150px;
        display:inline-block;

        }



        .mdiv
        {

        border:10px outset cyan;

        text-align:center;
        }
        </style>
 <script>
function validateForm()
{
var x = document.forms["myForm"]["name"].value;
if (x == "") {
alert("Name must be filled out");
return false;
}
var y = document.forms["myForm"]["ad"].value;
if (y == "") {
alert("Address must be filled out");
return false;
}
var z = document.forms["myForm"]["city"].value;
if (z== "") {
alert("city name must be filled out");
return false;
}
var v = document.forms["myForm"]["pin"].value;
if (v== "") {
```

```
alert("pin code must be filled out");
return false;
}
}</script>

      <title>FISAT</title>
<h1>Application form for admission to MCA</h1>
</head><body>

<div class="mdiv">
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY</center></h2> </div>
<form name="myForm" action="/action_page_post.php"

onsubmit="return validateForm()" method="post">

<label>NAME:</label><input name="name" type="text" size="30"><br><br>
<label>ADDRESS:</label><input name="ad" type="textarea" size="40"><br><br>
<label>CITY:</label><input name="city" type="text" size="30"><br><br>
<label>STATE:</label><input name="state" type="text" size="30"><br><br>
<label>COUNTRY:</label><input name="country" type="text" size="30"><br><br>
<label>PINCODE:</label><input name="pin" type="text" size="30"><br><br>
<label>MOBILE:</label><input name="no" type="text" size="30"><br><br>
<label>EMAIL:</label><input name="mailid" type="text" size="30"><br><br>
<label>DATE OF BIRTH:</label><input type="date"></br><br>
<label>GENDER:</label> Male<input
type="radio"name="GENDER"value="Male">Female<input
type="radio"name="GENDER"value="Female"><br><br>
<label>NATIONALITY:</label><input name="nationality" type="text"
size="30"><br><br>
<label>RELIGION:</label><label for="RELIGION">choose a religion:</label>
<select name="religion">
<option>--select an option--
<option>Hindu
<option>Muslim
<option>Christian
<option>others
</select>
 &nbspCOMMUNITY:<input name="community" type="text"
size="30"><br><br>
<label>CATEGORY:</label><label for="category">choose a category:</label>
<select name="category">
<option>--select an option--
<option>SC
<option>ST
<option>OBC
<option>others
</select><br><br>
```

```
<label>FATHERS DETAILS:</label><br><br><label>  NAME:  
    </label><input name="fathersname" type="text"
size="30"><br><br>


<p>EMPLOYED
<input type=checkbox></p><br>
<p>DESIGNATION
<input type=textfield></p><br>


<p>PHONE NO   
<input type=textfield></p><br>
<p>ANNUAL INCOME


<input name="income" type="text" size="30"><br><br>
<label>MOTHERS DETAILS:</label><br><br>
<label>NAME:        </label><input name="mothersname"
type="text" size="30"><br><br>


<p>EMPLOYED
<input type=checkbox></p><br>


<p>DESIGNATION
<input type=textfield></p><br>
<p>PHONE NO   
<input type=textfield></p><br>


<p>ANNUAL INCOME
<input name="income" type="text" size="30"><br><br>


<p><input type=submit value=Submit>
<input type=reset value=Reset></p>
</form></font>
</body>
</html>
```

Output:


Inbox (24) - athiraramachandran
FISAT
file:/home/stud/Athira42/validation.html.
PHONE NO
This page says
Name must be filled out
OK
ANNUAL INCOME
MOTHERS
DETAILS:
NAME:
EMPLOYED
DESIGNATION
PHONE NO
ANNUAL INCOME
Submit
Reset
username.html
Removed
validation.html
Show all
ENG
IN
23:20
13-12-2021

Experiment Number:7

Aim:

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

Program Code:

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript String And Math Functions</h2>
<p>The length of a string:</p>
<p id="demo"></p>
<script>
let text = "WEBPROGRAMMINGLAB";

document.getElementById("demo").innerHTML = text.length;
</script>
<p>Slice Method:</p>
<p id="demo1"></p>
<script>
let str = "orange, grapes, strawberry";
document.getElementById("demo1").innerHTML = str.slice(7,13);
</script>
<p>The substring:</p>
<p id="demo2"></p>
<script>

let str1 = "Apple, Banana, Kiwi";
document.getElementById("demo2").innerHTML = str1.substring(7,13);
```

```
</script>
<p>The substr:</p>
<p id="demo3"></p>
<script>
let str2 = "Apple, Banana, Kiwi";
document.getElementById("demo3").innerHTML = str2.substr(7,6);
</script>
<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
<button onclick="myFunction()">Try it</button>
<p id="demo4">Please visit Microsoft!</p>
<script>
function myFunction() {
  let text = document.getElementById("demo4").innerHTML;
  document.getElementById("demo4").innerHTML =
  text.replace("Microsoft","W3Schools");
}
</script>
<p>Convert string to upper case:</p>

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

<p id="demo5">Hello World!</p>



<script>
function myFunction1() {
  let text = document.getElementById("demo5").innerHTML;

  document.getElementById("demo5").innerHTML =
```

```
  text.toUpperCase();
}
</script>
<p>Convert string to lower case:</p>
<button onclick="myFunction2()">Try it</button>
<p id="demo6">Hello World!</p>
<script>
function myFunction2() {
  let text = document.getElementById("demo6").innerHTML;
  document.getElementById("demo6").innerHTML =
  text.toLowerCase();
}
</script>
<p>The concat() method :</p>
<p id="demo7"></p>

<script>
let text1 = "Hello";
let text2 = "World!";
let text3 = text1.concat(" ",text2);
document.getElementById("demo7").innerHTML = text3;
</script>
<p>The trim() Method</p>

<p id="demo8"></p>
<script>
let text4 = "     Hello World!     ";

let text5 = text4.trim();
```

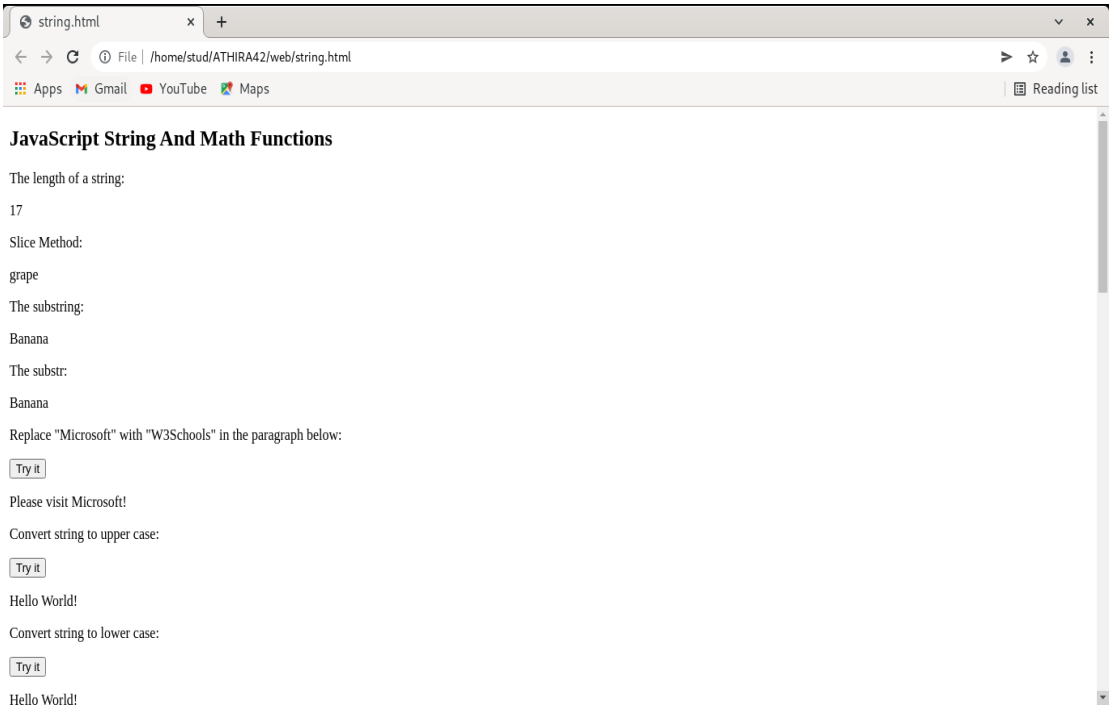
```
document.getElementById("demo8").innerHTML =

"Length text1=" + text1.length + "<br>Length2 text2=" + text2.length;
</script>
<p>The charAt() method :</p>
<p id="demo9"></p>
<script>
var textm = "HELLO WORLD";
document.getElementById("demo9").innerHTML = textm.charAt(1);
</script>
<p>Array:</p>
<p id="demo26"></p>
<script>
let text6 = "a,b,c,d,e,f";
const myArray = text6.split(",");
document.getElementById("demo26").innerHTML = myArray[0];
</script>
<p>The indexOf method:</p>

<p id="demo10"></p>
<script>
let str3 = "Please locate where 'locate' occurs!";
document.getElementById("demo10").innerHTML = str3.indexOf("locate");
</script>

<p>The search method:</p>
<p id="demo11"></p>
<script>
let str4 = "Please locate where 'locate' occurs!";
```

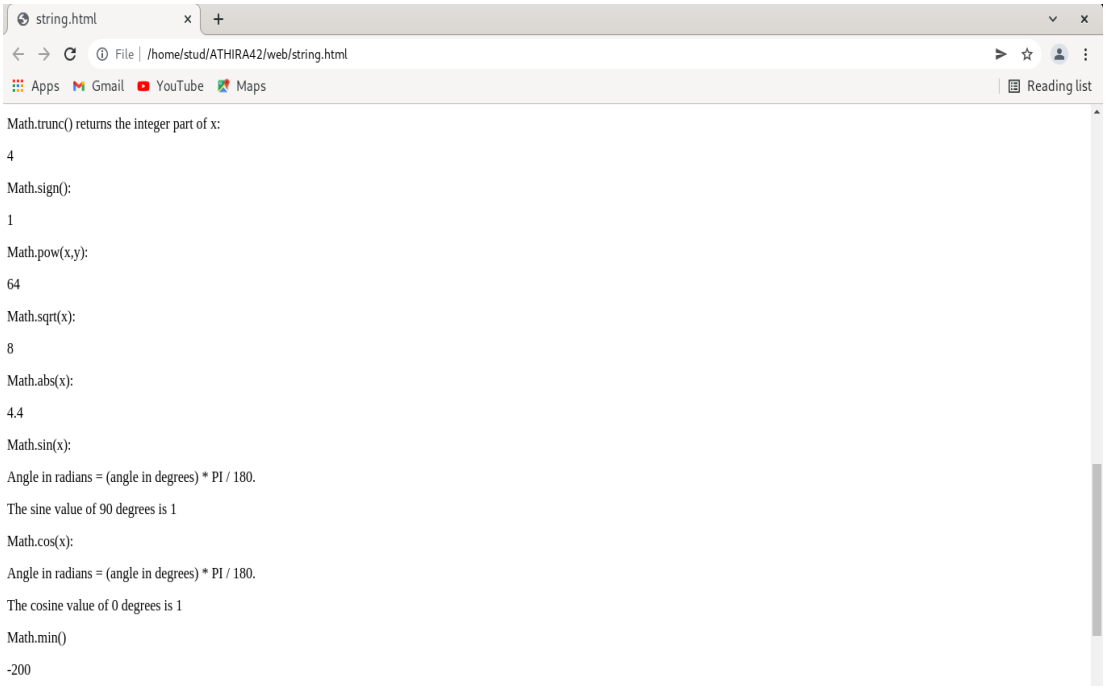
```
document.getElementById("demo11").innerHTML = str4.search("locate");
</script>

<p>Math.round():</p>
<p id="demo12"></p>
<script>
document.getElementById("demo12").innerHTML = Math.round(4.5);
</script>
<p>Math.ceil():</p>
<p id="demo13"></p>
<script>
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
</script>
<p>Math.floor() :</p>
<p id="demo14"></p>
<script>
document.getElementById("demo14").innerHTML = Math.floor(4.7);
</script>
<p>Math.trunc() returns the integer part of x:</p>


<p id="demo15"></p>
<script>
document.getElementById("demo15").innerHTML = Math.trunc(4.7);

</script>
<p>Math.sign():</p>
<p id="demo16"></p>
<script>
```

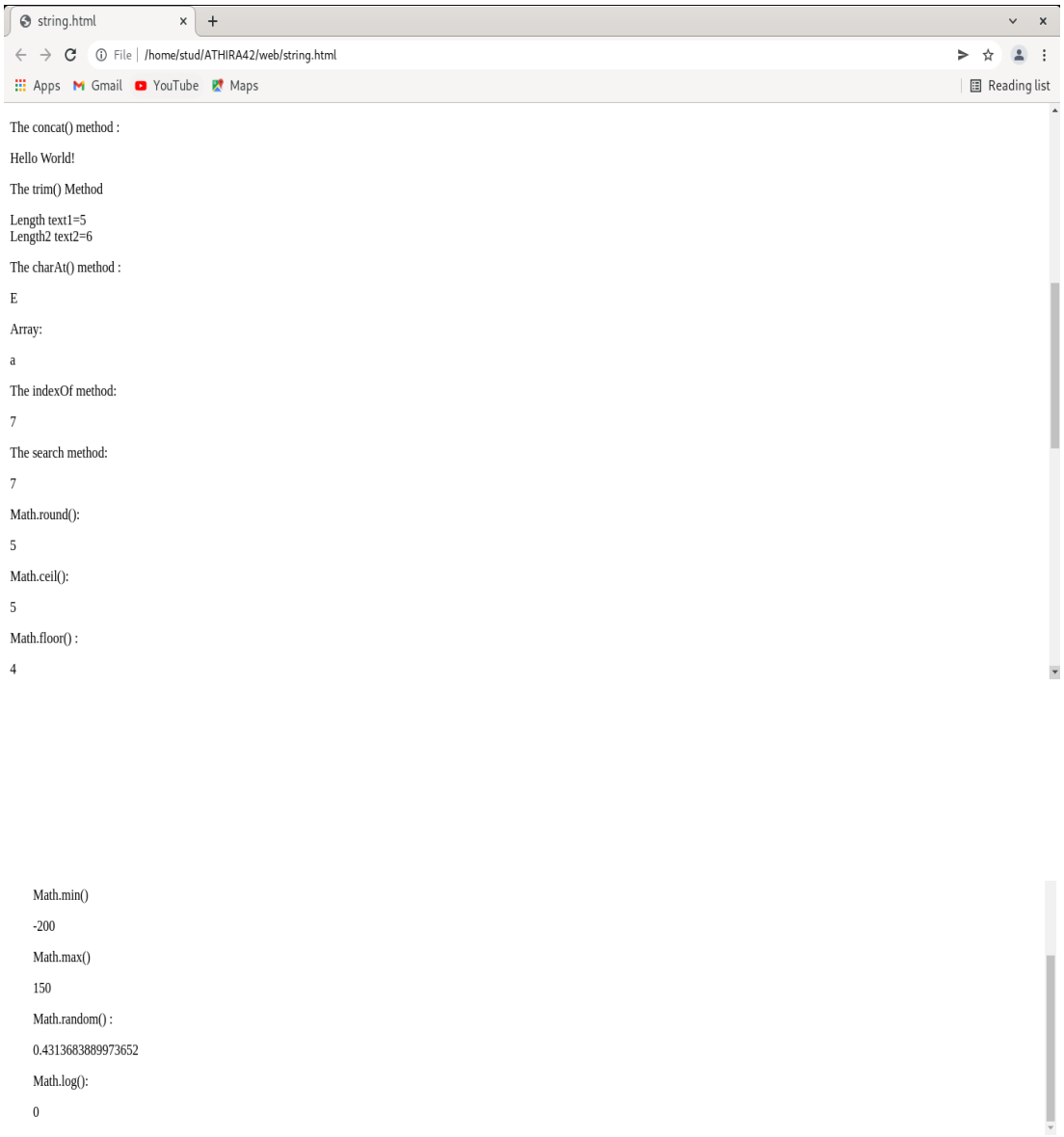
```
document.getElementById("demo16").innerHTML = Math.sign(4);
</script>
<p>Math.pow(x,y):</p>

<p id="demo17"></p>
<script>
document.getElementById("demo17").innerHTML = Math.pow(8,2);
</script>
<p>Math.sqrt(x):</p>
<p id="demo18"></p>
<script>
document.getElementById("demo18").innerHTML = Math.sqrt(64);
</script>
<p>Math.abs(x):</p>
<p id="demo19"></p>
<script>
document.getElementById("demo19").innerHTML = Math.abs(-4.4);
</script>
<p>Math.sin(x):</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):</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()</p>
<p id="demo22"></p>
<script>
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
<p>Math.max()</p>
<p id="demo23"></p>
<script>
document.getElementById("demo23").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>
<p>Math.random() :</p>
<p id="demo24"></p>
<script>
document.getElementById("demo24").innerHTML = Math.random();
</script>
<p>Math.log():</p>
<p id="demo25"></p>
<script>
document.getElementById("demo25").innerHTML = Math.log(1);
</script>
</body>
</html>
```

output:


string.html
File | /home/stud/ATHIRA42/web/string.html
Apps Gmail YouTube Maps
Reading list
JavaScript String And Math Functions
The length of a string:
17
Slice Method:
grape
The substring:
Banana
The substr:
Banana
Replace "Microsoft" with "W3Schools" in the paragraph below:
Try it
Please visit Microsoft!
Convert string to upper case:
Try it
Hello World!
Convert string to lower case:
Try it
Hello World!


string.html
File | /home/stud/ATHIRA42/web/string.html
Apps Gmail YouTube Maps
Reading list
Math.trunc() returns the integer part of x:
4
Math.sign():
1
Math.pow(x,y):
64
Math.sqrt(x):
8
Math.abs(x):
4.4
Math.sin(x):
Angle in radians = (angle in degrees) * PI / 180.
The sine value of 90 degrees is 1
Math.cos(x):
Angle in radians = (angle in degrees) * PI / 180.
The cosine value of 0 degrees is 1
Math.min()
-200


string.html
File | /home/stud/ATHIRA42/web/string.html
Apps
Gmail
YouTube
Maps
Reading list
The concat() method :
Hello World!
The trim() Method
Length text1=5
Length2 text2=6
The charAt() method :
E
Array:
a
The indexOf method:
7
The search method:
7
Math.round():
5
Math.ceil():
5
Math.floor() :
4
Math.min()
-200
Math.max()
150
Math.random() :
0.4313683889973652
Math.log():
0

Experiment Number:8

Aim:

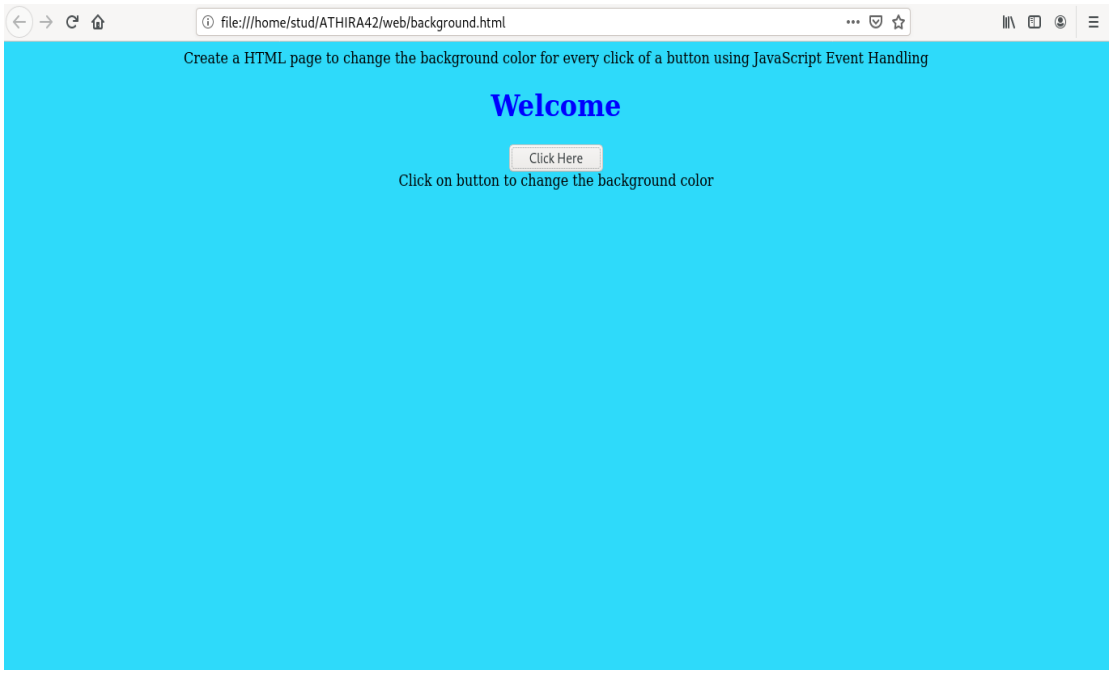
Create a HTML page to change the background color for every click of a button using JavaScript Event Handling

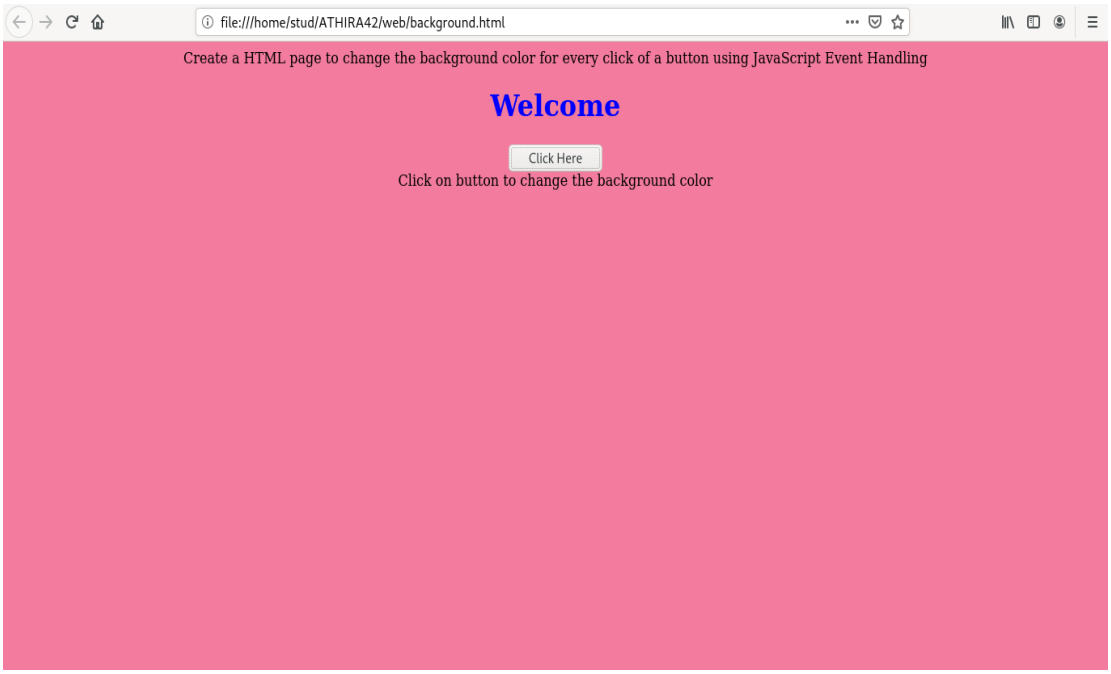
Program code:

```
<!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:




file:///home/stud/ATHIRA42/web/background.html
Create a HTML page to change the background color for every click of a button using JavaScript Event Handling
Welcome
Click Here
Click on button to change the background color

Experiment Number: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>

<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</t
h><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>';
elem.innerHTML = table;
}

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

Output:

CALENDAR

Enter The year : 2024

Enter The Month: 5

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 Number:10

Aim:

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

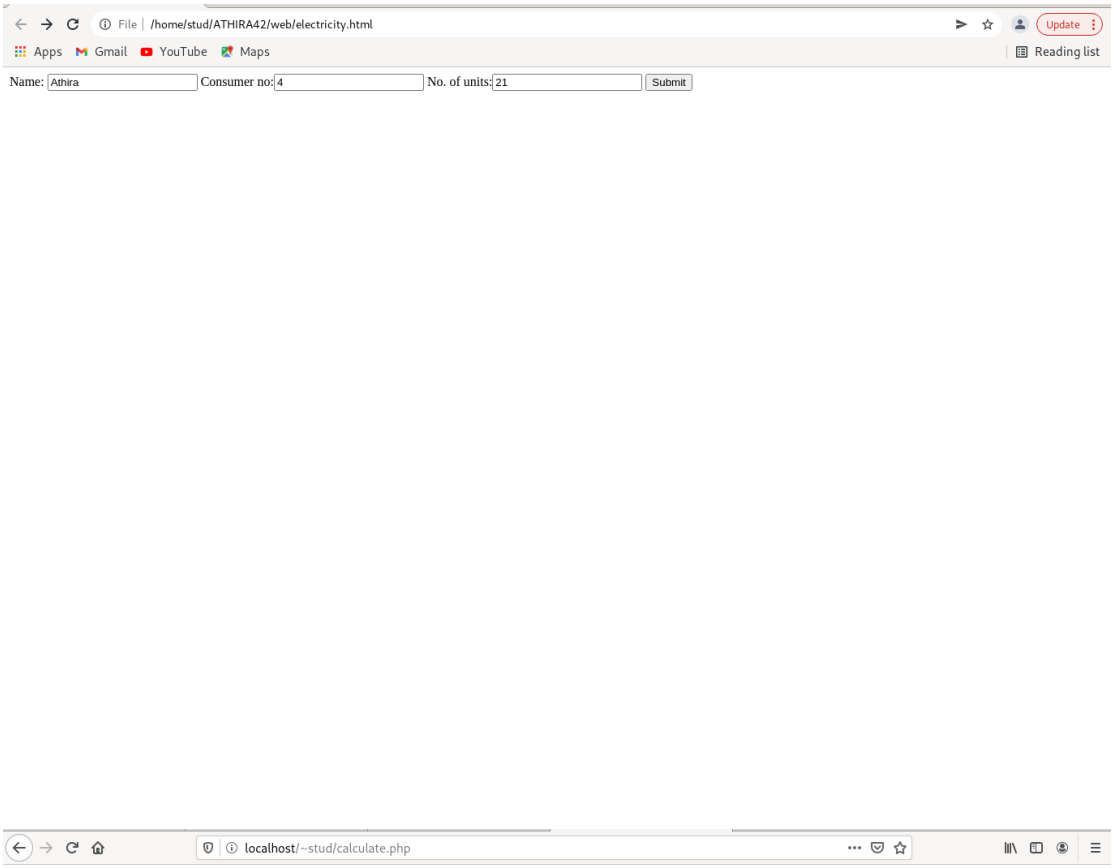
Program Code:

```
<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:


File | /home/stud/ATHIRA42/web/electricity.html
Update
Apps
Gmail
YouTube
Maps
Reading list
Name: Athira
Consumer no: 4
No. of units: 21
Submit
localhost/~stud/calculate.php
31.5

Experiment Number:11

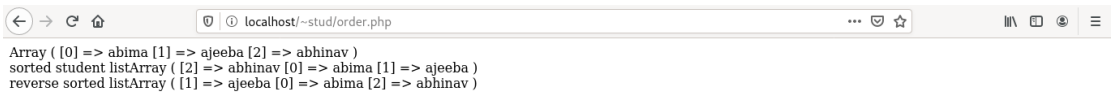
Aim:

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:

```
<html>
<body>
<?php

$stud=array("abima","ajeeba","abhinav");
print_r($stud);
echo"<br>";

echo"sorted student list";
asort($stud);
print_r($stud);
echo"<br>";

echo"reverse sorted list";
arsort($stud);
print_r($stud);
?>
</body>
</html>
```

Output:


localhost/~stud/order.php
Array ([0] => abima [1] => ajeeba [2] => abhinav)
sorted student listArray ([2] => abhinav [0] => abima [1] => ajeeba)
reverse sorted listArray ([1] => ajeeba [0] => abima [2] => abhinav)

Experiment Number:12

Aim:

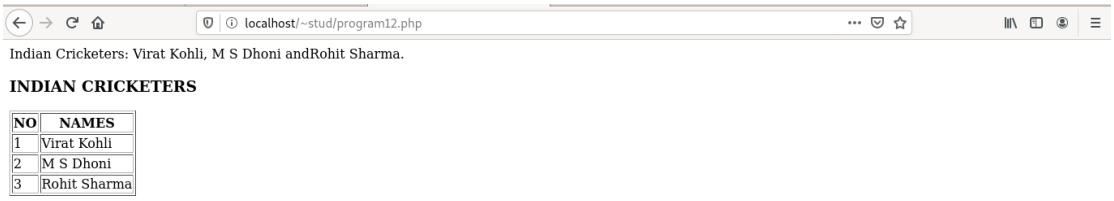
Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

Program code:

```
<!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 Number: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

```
<?php
$title=$_POST['txt'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from LIBSYSTEM where
Title='$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();
?>
```

addl.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="number" 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>
```

searchl.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>
```

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"; }
$sql="INSERT INTO LIBSYSTEM
VALUES($num,'$tit','$author','$edi','$pub')";

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

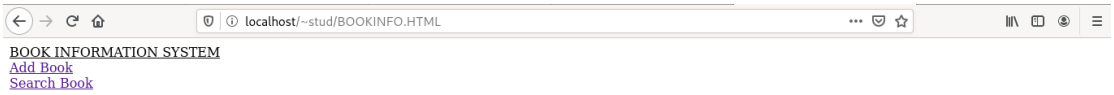
searchl.php

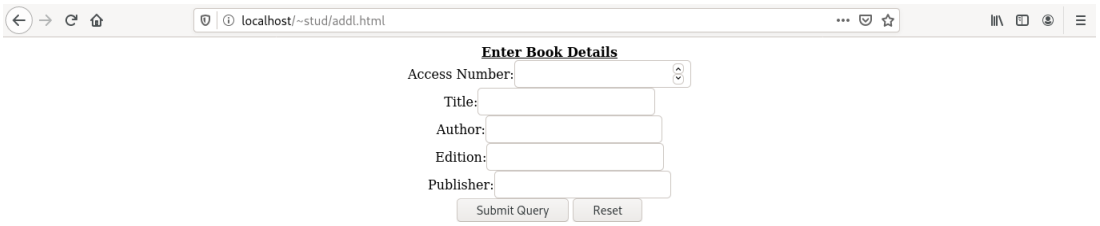
```
<?php
$title=$_POST['txt'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
```

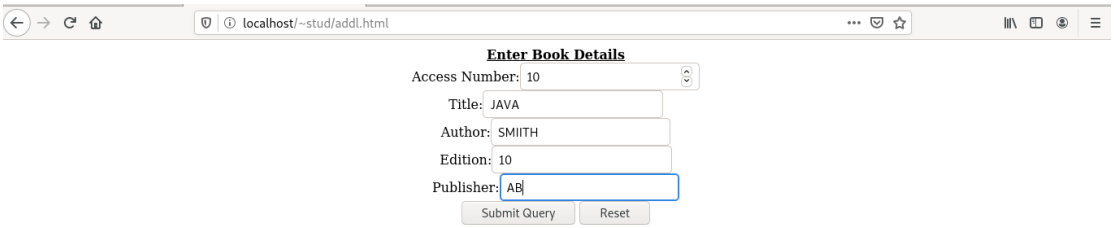
```
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from LIBSYSTEM where
Title='$title'";


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:

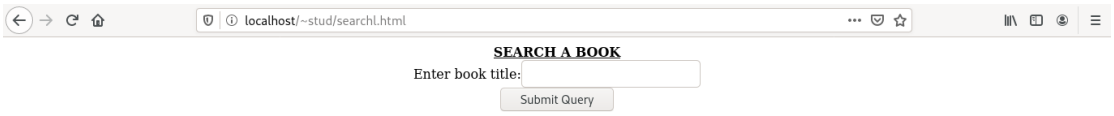
```
MariaDB [fisatdb]> DESC LIBSYSTEM;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| ACCESSING | int(10)     | NO   | PRI | NULL    |       |
| TITLE     | varchar(20) | NO   |     | NULL    |       |
| AUTHORS   | varchar(50) | NO   |     | NULL    |       |
| EDITION   | varchar(10) | NO   |     | NULL    |       |
| PUBLISHER | varchar(20) | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.002 sec)

MariaDB [fisatdb]> DESC LIBSYSTEM
    ->
    -> INSERT INTO LIBSYSTEM(ACCESSING,TITLE,AUTHORS,EDITION,PUBLISHER)
    -> VALUES(5,ZINDRELLA,JAMES,MARCH,DC BOOKS)
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near 'INS
ERT INTO LIBSYSTEM(ACCESSING,TITLE,AUTHORS,EDITION,PUBLISHER)
VALUES(5,ZIN...' at line 3
MariaDB [fisatdb]> select * from LIBSYSTEM;
+-----------+-----------+---------+---------+-----------+
```

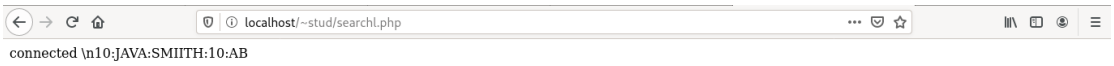



localhost/~stud/addl.html
Enter Book Details
Access Number:
Title:
Author:
Edition:
Publisher:
Submit Query
Reset


localhost/~stud/addl.html
Enter Book Details
Access Number: 10
Title: JAVA
Author: SMIITH
Edition: 10
Publisher: AB
Submit Query
Reset

```
MariaDB [fisatdb]> select * from LIBSYSTEM
    -> ;
+-----------+-----------+---------+---------+-----------+
| ACCESSING | TITLE     | AUTHORS | EDITION | PUBLISHER |
+-----------+-----------+---------+---------+-----------+
|         4 | zindrella | james   | 10      | xyz       |
|        10 | JAVA      | SMIITH  | 10      | AB        |
|        32 | python    | abc     | 23      | jhg       |
|        56 |           |         |         |           |
+-----------+-----------+---------+---------+-----------+
4 rows in set (0.001 sec)

MariaDB [fisatdb]>
```





connected \n10:JAVA:SMIITH:10:AB

Experiment Number: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>AIR INDIA</u><br>
<a href="add_airline.html">Add airline details</a><br>
<a href="search5.html">Search airline details</a><br>
</body>
</html>
```

add_airline.html

```
<html><head>
<title>add airline</title></head>
<body>
<form name="frm1" action="addll.php" method="POST">
<center><b><u>Enter Airline Details</u></b><br>
Airline Number:<input type="text" name="num"><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="des"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

addll.php

```
<?php
$num=$_POST['num'];
$name=$_POST['name'];
$time=$_POST['time'];
$source=$_POST['source'];
```

```
$des=$_POST['des'];
$con=new mysqli('localhost','fisat','fisat','fisatdb');
if($con==false)
{ echo 'Failed to connect'; }
else
{ echo 'connected'; }
$sql="INSERT INTO addb12 VALUES($num,'$name','$time','$source','$des')";
if($con->query($sql))
{
echo '<BR>';
echo 'New row added';
}
else
{
echo 'ERROR:could not execute query';
}
$con->close();
?>
```

search5.html

```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="searchll.php" method="POST">
<center>
<b><u>SEARCH AN AIRLINE DETAILS</u></b><br>
Enter source:<input type="text" name="source"><br>
Enter destination:<input type="text" name="des"><br>

<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

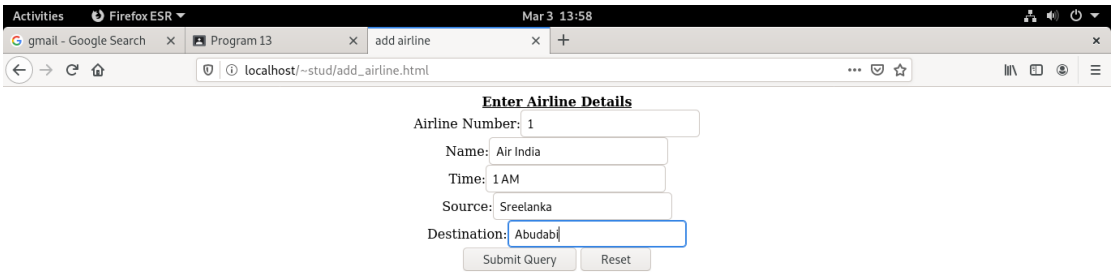
searchll.php

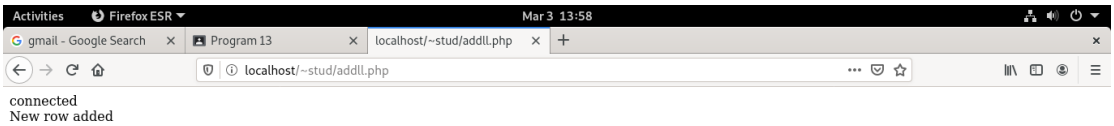
```
<?php
$source=$_POST['source'];
$des=$_POST['des'];
$con=new mysqli('localhost','fisat','fisat','fisatdb');
if($con==false)
{
echo 'Failed to connect';
}
else
{
echo 'connected\n';
```

```
}
$sql="select * from addb12 where source='$source' 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 airline'; }
}
else
{ echo '\nError:could not connect'; }
$con->close();
?>
```

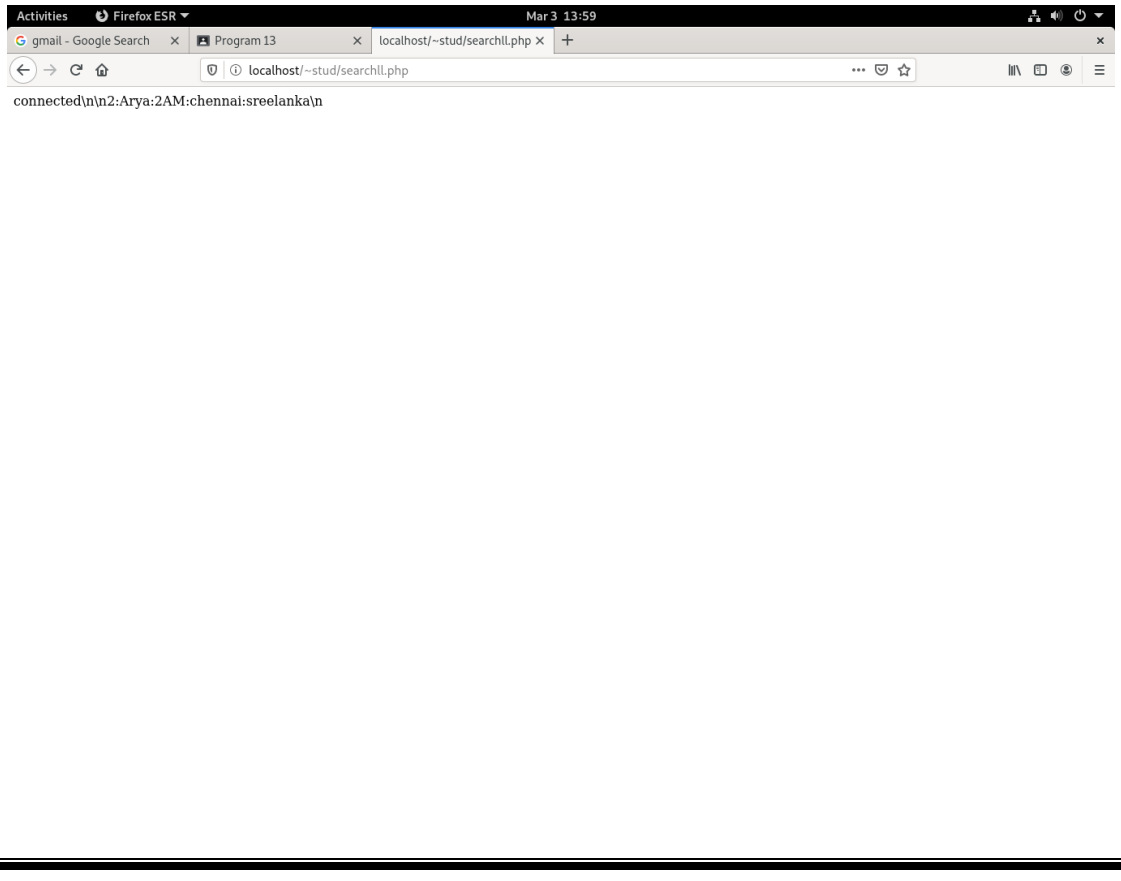
Output:

```
MariaDB [fisatdb]> desc addb12;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Number      | int(10)     | YES  |     | NULL    |       |
| Name        | varchar(20) | YES  |     | NULL    |       |
| Time        | varchar(10) | YES  |     | NULL    |       |
| Source      | varchar(20) | YES  |     | NULL    |       |
| Destination | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.001 sec)

MariaDB [fisatdb]> select * from addb12
    -> ;
+--------+-----------+------+-----------+-------------+
| Number | Name      | Time | Source    | Destination |
+--------+-----------+------+-----------+-------------+
|      1 | Air India | 1 AM | Sreelanka | Abudabi     |
|      2 | Arya      | 2AM  | chennai   | sreelanka   |
+--------+-----------+------+-----------+-------------+
2 rows in set (0.000 sec)

MariaDB [fisatdb]> select * from addb12 where source="Sreelanka";
+--------+-----------+------+-----------+-------------+
| Number | Name      | Time | Source    | Destination |
+--------+-----------+------+-----------+-------------+
|      1 | Air India | 1 AM | Sreelanka | Abudabi     |
+--------+-----------+------+-----------+-------------+
1 row in set (0.000 sec)

MariaDB [fisatdb]>
```


Activities
Firefox ESR
Mar 3 13:58
gmail - Google Search
Program 13
add airline
localhost/~stud/add_airline.html
Enter Airline Details
Airline Number: 1
Name: Air India
Time: 1 AM
Source: Sreelanka
Destination: Abudabi
Submit Query
Reset


Activities
Firefox ESR
Mar 3 13:58
gmail - Google Search
Program 13
localhost/~stud/addll.php
localhost/~stud/addll.php
connected
New row added

Activities
Firefox ESR
Mar 3 13:59
gmail - Google Search
Program 13
search
localhost/~stud/search5.html
SEARCH AN AIRLINE DETAILS
Enter source: chennai
Enter destination: sreelanka
Submit Query


Activities
Firefox ESR
Mar 3 13:59
gmail - Google Search
Program 13
localhost/~stud/searchll.php
localhost/~stud/searchll.php
connected\n\n2:Arya:2AM:chennai:sreelanka\n