FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

20MCA133 WEB PROGRAMMING LAB

LABORATORY RECORD

Name: ANZ MARIYA DAVIS

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 34

University Registration Number: FIT21MCA-2034

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ***ANZ MARIYA DAVIS(FIT21MCA-2034)*** *in the* ***20MCA133 WEB PROGRAMMING LAB*** *Laboratory towards the partial fulfilment for the award of the Master Of Computer Applications during the academic year 2021-2022.*

Signature of Staff in Charge

Name:

Signature of H O D

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

CONTENT

9	03/01/2022	Generate the calendar using JavaScript code by getting the year and month from the user.	32	
10	10/01/2022	Compose Electricity bill from user input based on a given tariff using PHP.	34	
11	10/01/2022	Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.	36	
12	10/01/2022	Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.	38	
13	17/01/2022	Using PHP and MySQL, develop a program to accept book information viz.Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings	40	
14	17/012022	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.	45	

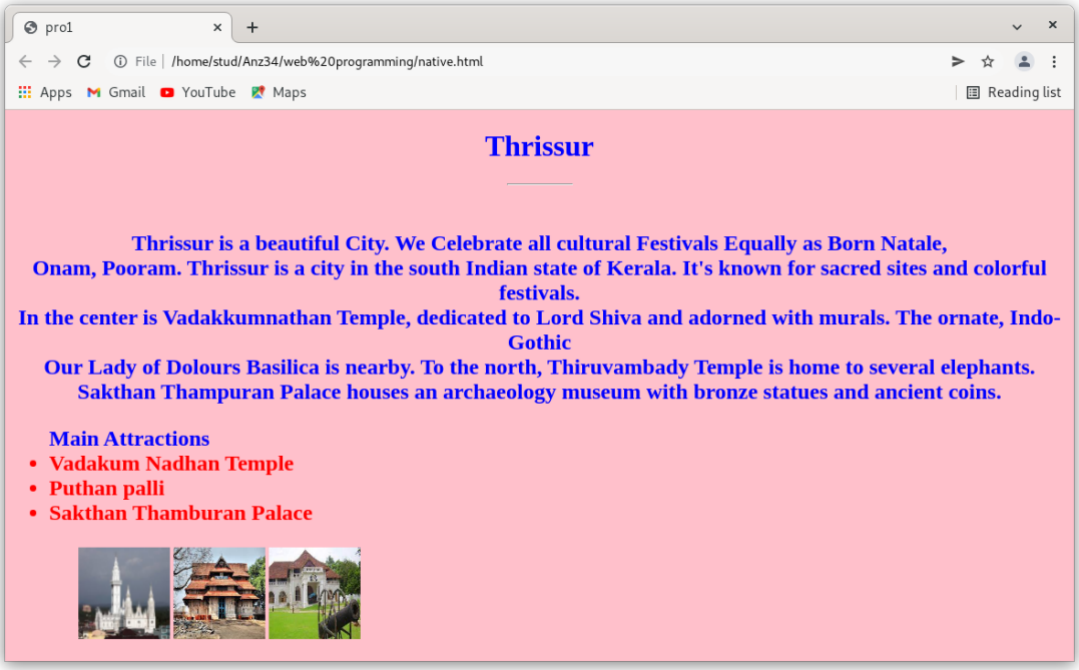
Experiment No: 1

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

Source code

```
<!doctype html>
<html>
<head><title>pro1</title></head>
<body bgcolor="pink">
<font color="blue">
<h1 align="center">Thrissur</h1>
<hr height=2px width="70px">
</font>
<br>
<h2>
<p align="center"><font color="blue">Thrissur is a beautiful City. We Celebrate all cultural Festivals Equally as Born Natale,<br> Onam, Pooram.
Thrissur is a city in the south Indian state of Kerala. It's known for sacred sites and colorful festivals. <br>
In the center is Vadakkumnathan Temple, dedicated to Lord Shiva and adorned with murals. The ornate, Indo-Gothic <br>
Our Lady of Dolours Basilica is nearby. To the north, Thiruvambady Temple is home to several elephants. <br>
Sakthan Thampuran Palace houses an archaeology museum with bronze statues and ancient coins. </font><br>
<ul><font color="blue">Main Attractions</font>
<font color="red"><li>Vadakum Nadhan Temple</li>
<li>Puthan palli</li>
<li>Sakthan Thamburan Palace</li>
</font>
</ul>
</h2></p>
</font>
               
  
<img align="center" height="100px" width="100px" src="church.jpg">
<img align="center" height="100px" width="100px" src="temple.jpg">
<img align="center" height="100px" width="100px" src="sakthan.jpg">
</body>
</html>
```

Output


pro1
File | /home/stud/Anz34/web%20programming/native.html
Apps
Gmail
YouTube
Maps
Reading list
Thrissur
Thrissur is a beautiful City. We Celebrate all cultural Festivals Equally as Born Natale,
Onam, Pooram. Thrissur is a city in the south Indian state of Kerala. It's known for sacred sites and colorful festivals.
In the center is Vadakkumnathan Temple, dedicated to Lord Shiva and adorned with murals. The ornate, Indo-Gothic
Our Lady of Dolours Basilica is nearby. To the north, Thiruvambady Temple is home to several elephants.
Sakthan Thampuran Palace houses an archaeology museum with bronze statues and ancient coins.
Main Attractions
Vadakum Nadhan Temple
Puthan palli
Sakthan Thamburan Palace

Experiment No: 2

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

Source code

Biodata.html

```
<!doctype html>
<html>
<head><title>pro2</title></head>
<body align="center">
<h1>BIO DATA</h1>
<br>
<h3>
Name         : Anz Mariya Davis
<br><br>
Age          : 22
<br><br>
City         : Thrissur
<br><br>
Address      : Arimbooparamban(h)
<br><br>
<h2>Education</h2>
<table border="2px" align="Center">
<tr>
  <th>SSLC</th>
  <th>12th</th>
  <th>Degree</th>
</tr>
<tr>
  <td><a href="s1.html">St Raphael's CGHSS Ollur</a></td>
  <td><a href="s1.html">St Raphael's CGHSS Ollur</a></td>
  <td><a href="st.html">St Mary's College Thrissur</a></td>
</tr>
<tr>
  <td><img width="50px" height="50px" src="10th.jpeg"></td>
  <td><img width="50px" height="50px" src="12th.jpg"></td>
  <td><img width="50px" height="50px" src="ug.jpeg"></td>
</tr>
</table>
</h3>

</body>
</html>
```

s1.html

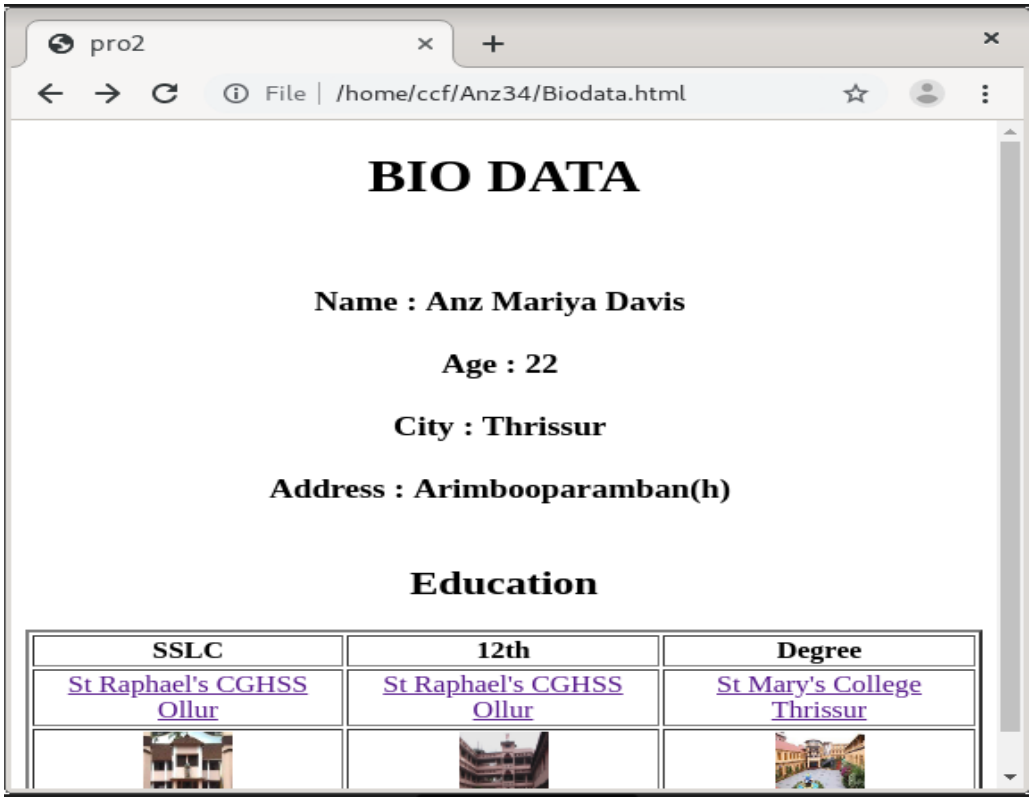
```
<!doctype html>
<html>
<head><title>bio</title></head>
<body align="center">
<h1>ST RAPHAEL'S CGHSS OLLUR</h1>
<br>
<img align="center" src="12th.jpg">
<p>St. Raphael's Convent Girls High School is a Kerala Government aided Christian school <br>
run by Carmelites, located in Ollur, Thrissur. The school was started in 1942 with 13 classes<br>
 and now have classes till secondary level.
</p>
<a #bottom href="Biodata.html">HOME</a>
</body>
</html>
```

st.html

```
<!doctype html>

<html>
<head><title>bio</title></head>
<body>
<h1 align="center" color="red">ST MARY'S COLLEGE THRISSUR</h1><br>
<img align="center" src="ug.jpeg">
<h2 align="center" color="blue">St. Mary's College, Thrissur is the first women's college in Kerala state, India. Established and managed
<br>by the CMC Educational Society of Nirmala Province of the Congregation of the Mother of Carmel in the Syro
<br>Malabar Catholic Church, the college is under the jurisdiction of the Syro Malabar Catholic Bishop of Thrissur.
<br>
</h2>
<ul>At its inception in 1946, the college had two degree courses and two intermediate courses. St. Mary's now has 23 departments.

    <li>English</li>
    <li>Hindi</li>
    <li>Sanskrit</li>
    <li>Malayalam</li>
    <li>Mathematics</li>
    <li>Physics</li>
    <li>Biochemistry</li>
    <li>Chemistry</li>
    <li>Psychology</li>
    <li>Commerce</li>
```

```
    <li>Biotechnology</li>
    <li>Botany</li>
    <li>Zoology</li>
    <li>Microbiology</li>
    <li>History</li>
    <li>Economics</li>
        <li>Physical Education</li>

        <li>Sociology</li>

    <li>Computer Science / Computer Applications</li>
    <li>Bioinformatics</li>
    <li>Management studies</li>
    <li>Social work</li>
    <li>Bachelor of vocational - B. Voc</li>
</ul>
<a #bottom href="Biodata.html">HOME</a>
</body>
</html>
```

Output



bio

File | /home/ccf/Anz34/s1.html

ST RAPHAEL'S CGHSS OLLUR

St. Raphael's Convent Girls High School is a Kerala Government aided Christian school
run by Carmelites, located in Ollur, Thrissur. The school was started in 1942 with 13 classes
and now have classes till secondary level.

HOME

bio

File | /home/ccf/Anz34/st.html

ST MARY'S COLLEGE THRISSUR

St. Mary's College, Thrissur is the first women's college in Kerala state, India. Established and managed by the CMC Educational Society of Nirmala Province of the Congregation of the Mother of Carmel in the Syro Malabar Catholic Church, the college is under the jurisdiction of the Syro Malabar Catholic Bishop of Thrissur. At its inception in 1946, the college had two degree courses and two intermediate courses. St. Mary's now has 23 departments.

HOME

Experiment No: 3

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

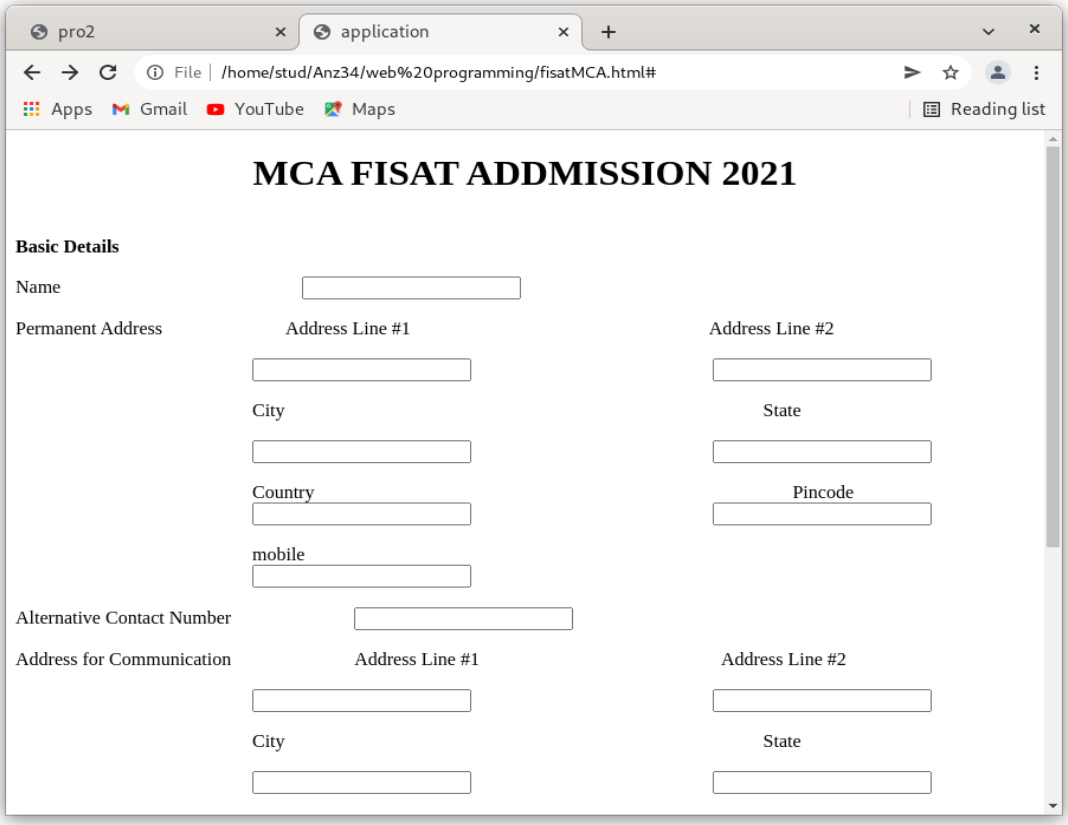
Source code

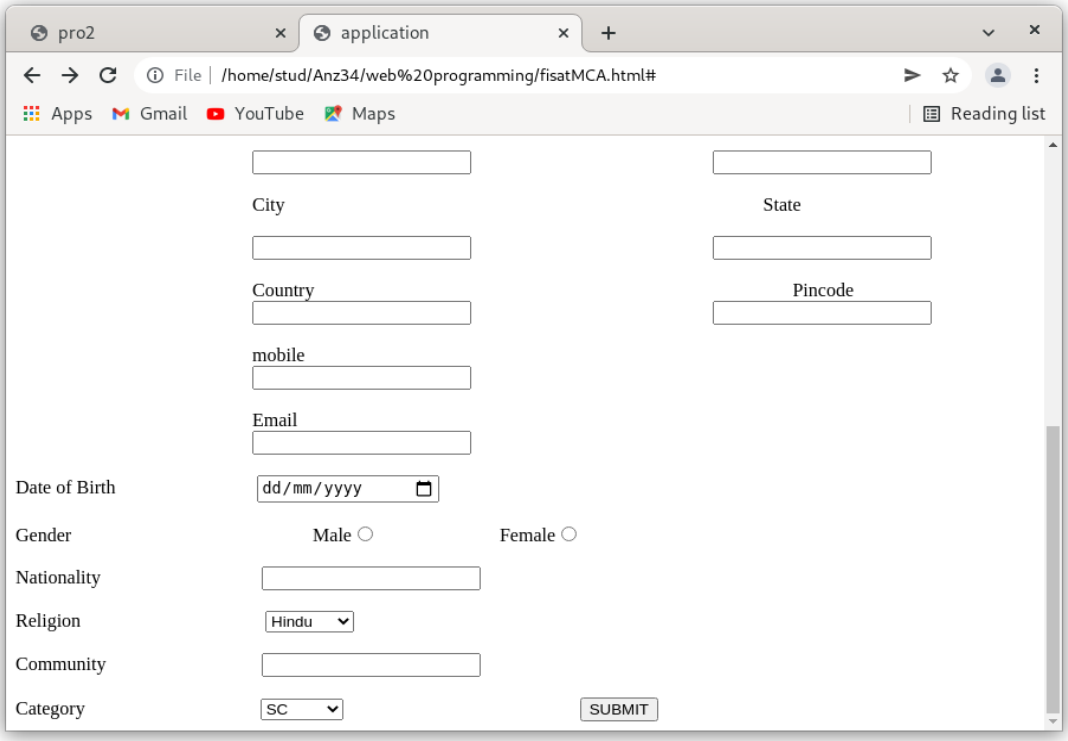
```
<!doctype html>
<html>
<head><title>application</title>
<style>
.space1 {
        margin-left: 200px;
       }
.space2 {
        margin-left: 100px;
       }
.space3 {
        margin-left: 400px;
       }

</style></head>
<body>
<form action="#" method="post">

<H1 align="center" color="blue">MCA FISAT ADDMISSION 2021</h1>
<br>
Basic Details

<br><br>

Name
<input class="space1" type="text" id="name">
<br><br>

Permanent Address
<h class="space2">Address Line #1</h>
<h
class="space1">         &n
bsp;  Address Line #2</h><br><br>

                <input class="space1" type="text" id="add1">

                <input class="space1" type="text" id="add2"><br><br>
<h class="space1">City<h>
<h class="space3">State<h><br><br>
<input class="space1" type="text" id="city">



<input class="space1" type="text" id="state">
```

```
<br><br>

<h class="space1">Country</h>
<h class="space3">Pincode</h><br>

<input class="space1" type="text" id="country">
<input class="space1" type="number" id="pin">
<br><br><h class="space1">mobile</h><br>

<input class="space1" type="number" id="mobile"><br><br>
Alternative Contact Number
<input class="space2" type="number" id="altnum"><br><br>
Address for Communication
<h class="space2">Address Line #1</h>
<h class="space1">Address Line #2</h><br><br>
 <input class="space1" type="text" id="add1">
 <input class="space1" type="text" id="add2"><br><br>
<h class="space1">City<h>
<h class="space3">State<h><br><br>
<input class="space1" type="text" id="city">
<input class="space1" type="text" id="state">
<br><br>

<h class="space1">Country</h>
<h class="space3">Pincode</h><br>

<input class="space1" type="text" id="country">
<input class="space1" type="number" id="pin">
<br><br><h class="space1">mobile</h><br>
<input class="space1" type="number" id="mobile"><br><br>
<h class="space1">Email</h><br>
<input class="space1" type="email" id="email">
<br><br>
Date of Birth
    <input class="space2" type="date" id="date"><br><br>
Gender
<h class="space1">Male</h><input type="radio" name="gender">
<h class="space2">Female</h><input type="radio" name="gender">
<br><br>
Nationality
        <input class="space2"
type="text" id="nationality">
<br><br>
Religion          &n
bsp;  
<select class="space2">
<option value="Hindu">Hindu</option>
<option value="Christian">Christian</option>
<option value="Muslim">Muslim</option>
<option value="Others">Others</option>
```

```
</select>
<br><br>
Community       
<input class="space2" type="text" id="Community">
<br><br>
Category           &n
bsp;
<select class="space2" value="Category">
<option>SC</option>
<option>ST</option>
<option>OBC</option>
<option>OEC</option>
<option>General</option>
<option>Others</option>

<br><br>
<input class="space1" type="submit" value="SUBMIT">
</form>
</body>
</html>
output
```

Output




pro2
application
File | /home/stud/Anz34/web%20programming/fisatMCA.html#
Apps
Gmail
YouTube
Maps
Reading list
City
State
Country
Pincode
mobile
Email
Date of Birth
dd/mm/yyyy
Gender
Male
Female
Nationality
Religion
Hindu
Community
Category
SC
SUBMIT

Experiment No: 4

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

Source code

Frames.html

```
<!doctype html>
<html>
<head><title>frames</title></head>
<frameset rows="20%,*">

<frame name="top" src="head.html">
<frameset cols="30%,70%">
<frame name="co" src="contents.html">
<frame name="main_page" src="words.html">
<noframes>The browser you are working does not support frames</noframes>
</frameset>
</html>
```

contents.html

```
<!doctype html>
<html>
<head><title>contents</title></head>
<body bgcolor="sky-blue">
<h1>Contents</h1>
<ul>
<li><a href="birds.html" target="main_page">Birds</a></li>
<br>
<li><a href="animals.html" target="main_page">Animals</a></li>
</body>
</html>
```

words.html//main

```
<!doctype html>
<html>
<head><title>main_page</title></head>
<body>
<iframe src="iiframe.html"></iframe>
</body>
</html>
```

birds.html

```
<!doctype html>
<html>
<head><title>Birds</title></head>
<body bgcolor="cyan">
<h1 align="center">BIRDS</h1>
```

```
<br>
<br>
<center>
<img border="2" src="b1.jpeg" height="20%" width="20%">
<img border="2" src="b2.jpeg" height="20%" width="20%">
<img border="2" src="b3.jpg" height="20%" width="20%">
<br>
<img border="2" src="b4.jpeg" height="20%" width="20%">
<img border="2" src="b5.jpg" height="20%" width="20%">
<img border="2" src="b6.jpeg" height="20%" width="20%">
</center>
<body>
</html>
```

animals.html

```
<!doctype html>
<html>
<head><title>Animals</title></head>
<body bgcolor="cyan">
<h1 align="center">ANIMALS</h1>
<br>
<br>
<center>
<img border="2" src="a1.jpeg" height="20%" width="20%">
<img border="2" src="a2.jpeg" height="20%" width="20%">
<img border="2" src="a3.jpg" height="20%" width="20%">
<br>
<img border="2" src="a4.jpg" height="20%" width="20%">
<img border="2" src="a5.jpeg" height="20%" width="20%">
<img border="2" src="a6.jpg" height="20%" width="20%">
</center>
</body>
</html>
```

iiframe.html

```
<!doctype html>
<html>
<head><title>iframe</title></head>
<body>
<h2>Living Things</h2>
<p>

Birds, insects, animals, trees, human beings, are a few examples of <br>living things as they have the same characteristic features, like eating,<br> breathing, reproduction, growth, and development, etc.<br>
<h3>Characteristics of Living Things</h3>

   Living things are made up of a cell or cells.
   They obtain and use energy to survive.
```

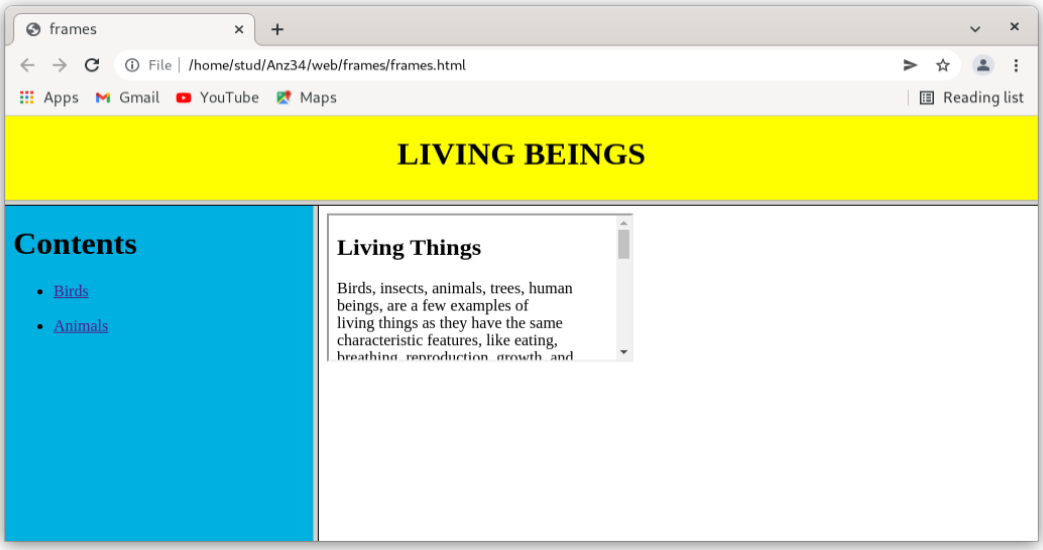
A unique ability to reproduce, ability to grow, ability to metabolize,
 ability to respond to stimuli, ability to adapt to the environment,
ability to move and last but not the least an ability to respire.

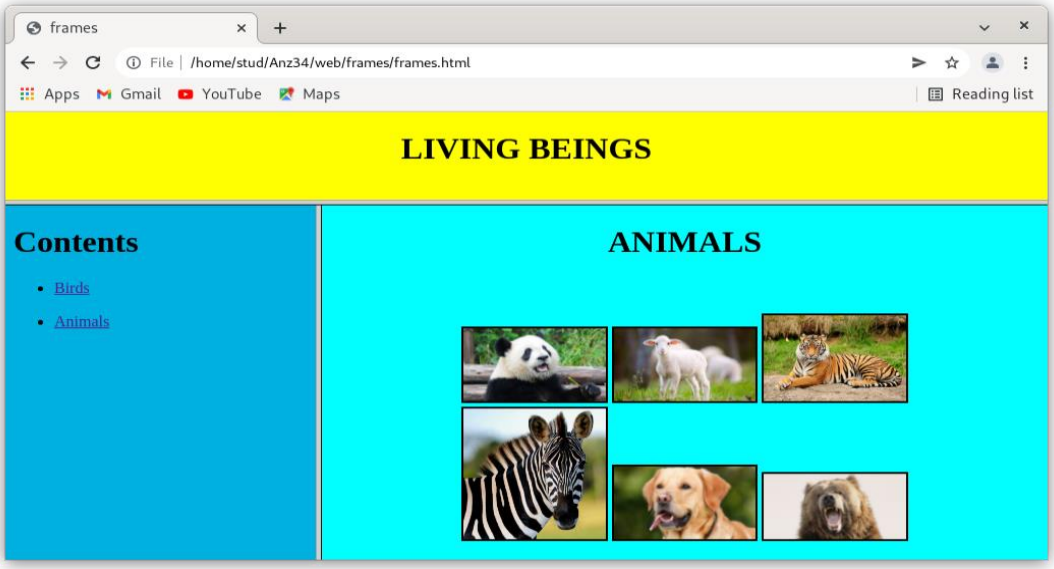
<h3>Beyond Living Things<h3>

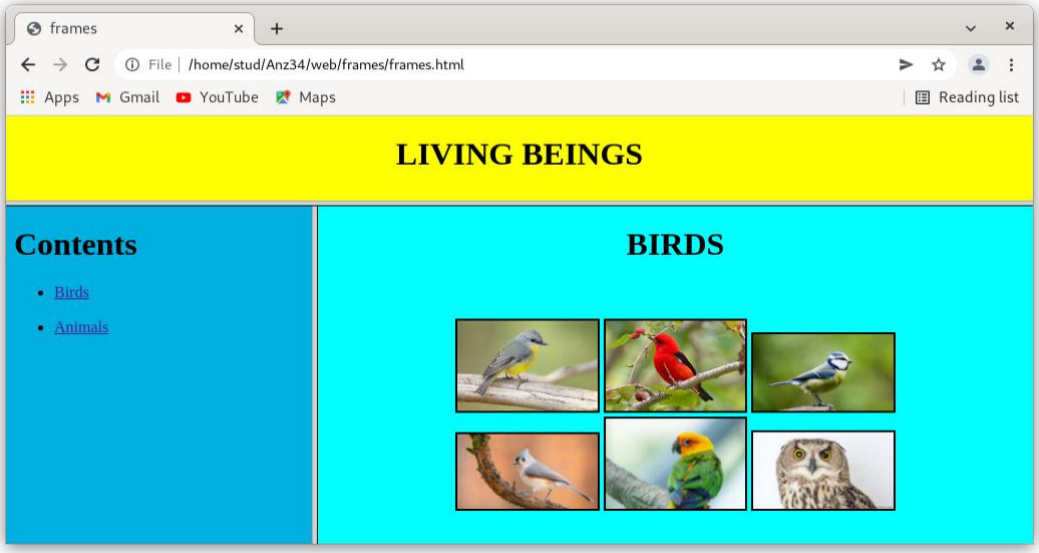
You know what are living things. You know why they are called so. Now,
there's something called viruses that are considered to be neither a
living thing nor a non-living thing. That is to say, they possess certain
 characteristics of living things (they tend to infect other
 organisms) as well as non-living things (viruses cannot reproduce without a host).
</p>
</body>
</html>
head.html

```
<!doctype html>
<html>
<head>
<title>living</title>
</head>
<body bgcolor="yellow">
<h1 align="center" color="green">LIVING BEINGS</h1>
</body>
</html>
```

Output




frames
File | /home/stud/Anz34/web/frames/frames.html
Apps
Gmail
YouTube
Maps
Reading list
LIVING BEINGS
Contents
Birds
Animals
ANIMALS


frames
File | /home/stud/Anz34/web/frames/frames.html
Apps
Gmail
YouTube
Maps
Reading list
LIVING BEINGS
Contents
Birds
Animals
BIRDS

Experiment No: 5

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

Source code

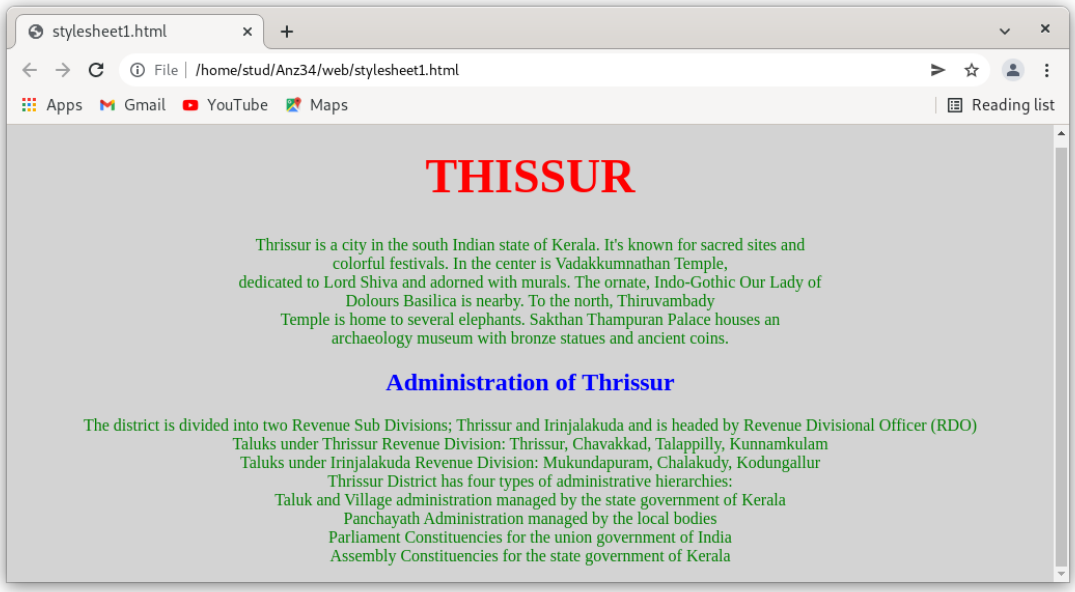
Stylesheet1.html

```
<!doctype html>
<html>
<head>
<link rel="stylesheet" href="style1.css">
<style>
p {
    color: green;
    text-align: center;
  }
.hh {
     color: blue;
     text-align: center;
   }
</style>
</head>
<body>
<h1 style="color:red;font-size:46px;text-align:center">THISSUR</h1>
<p>Thrissur is a city in the south Indian state of Kerala. It's known for sacred sites and <br>colorful festivals. In the center is Vadakkumnathan Temple,<br> dedicated to Lord Shiva and adorned with murals. The ornate, Indo-Gothic Our Lady of <br>Dolours Basilica is nearby. To the north, Thiruvambady <br>Temple is home to several elephants. Sakthan Thampuran Palace houses an <br>archaeology museum with bronze statues and ancient coins.</p>
<h2 class="hh">Administration of Thrissur</h2>
<p>The district is divided into two Revenue Sub Divisions; Thrissur and Irinjalakuda and is headed by Revenue Divisional Officer (RDO)<br>

   Taluks under Thrissur Revenue Division: Thrissur, Chavakkad, Talappilly, Kunnamkulam<br>
   Taluks under Irinjalakuda Revenue Division: Mukundapuram, Chalakudy, Kodungallur<br>

Thrissur District has four types of administrative hierarchies:<br>

   Taluk and Village administration managed by the state government of Kerala<br>
   Panchayath Administration managed by the local bodies<br>
   Parliament Constituencies for the union government of India<br>
   Assembly Constituencies for the state government of Kerala<br></p>
</body>
</html>
```

Style1.css

```
body {
      background-color:LightGray;
    }
```

Output



Experiment No:6

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

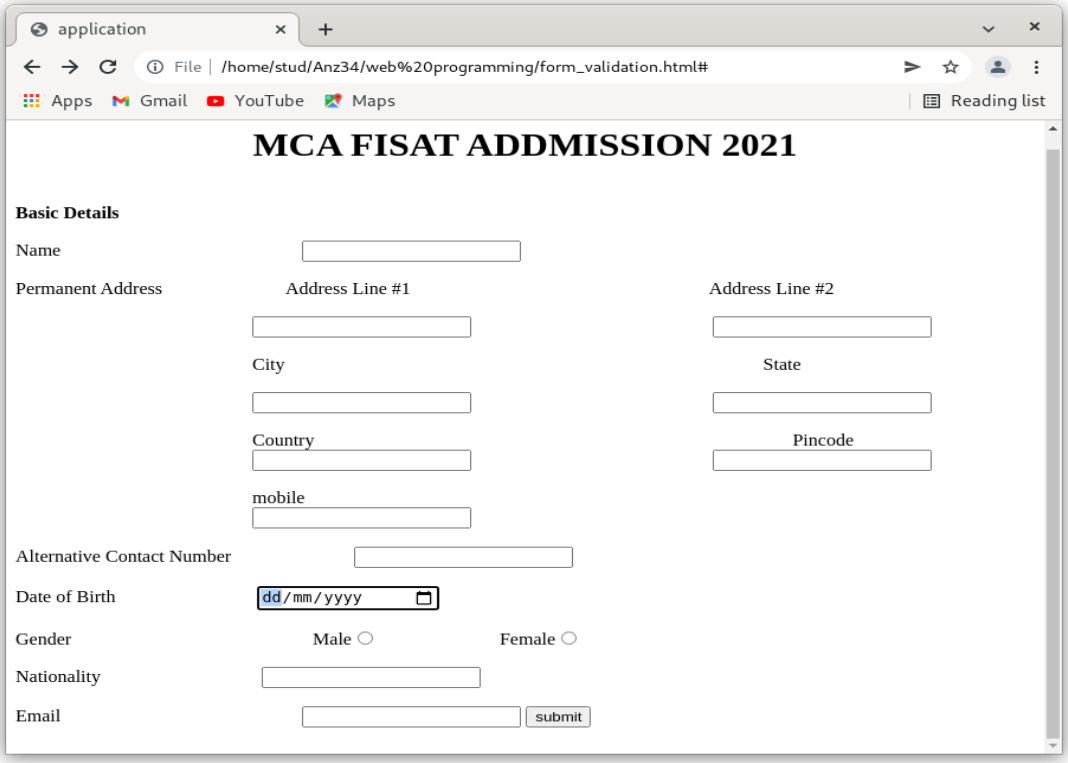
Source code

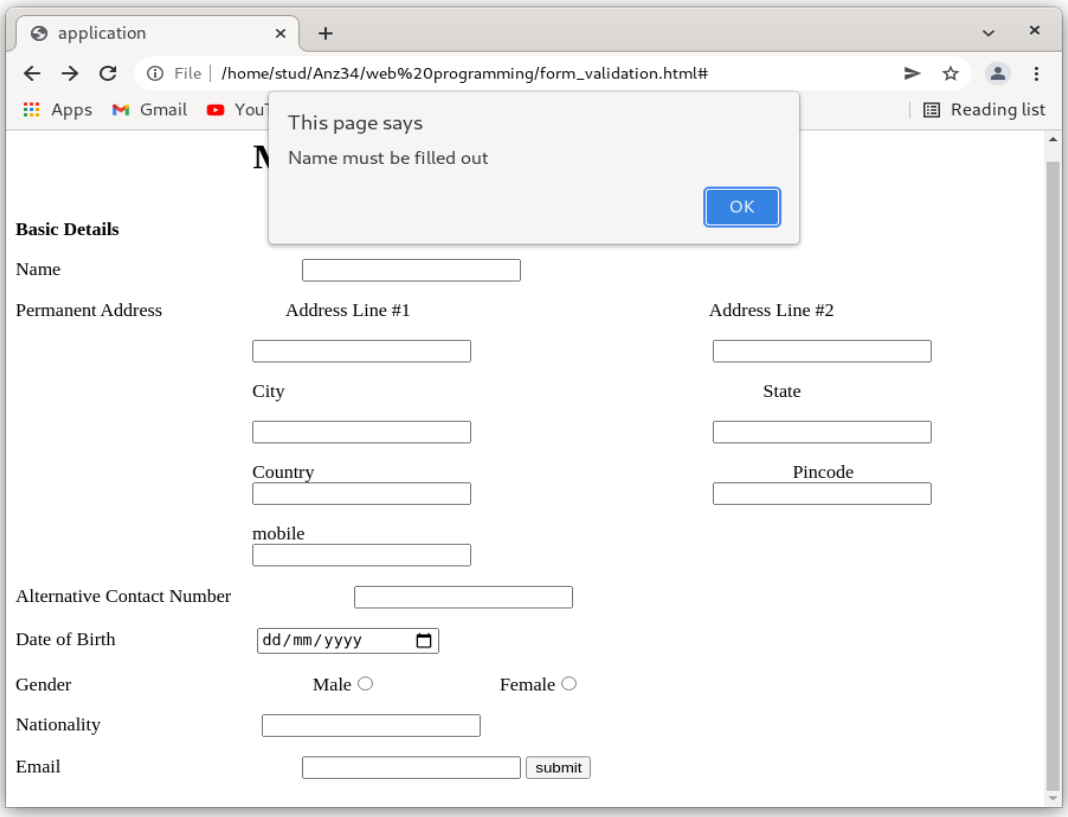
Form_validation.html

```
<!doctype html>
<html>
<head><title>application</title>
<style>
.space1 {
        margin-left: 200px;
       }
.space2 {
        margin-left: 100px;
       }
.space3 {
        margin-left: 400px;
       }

</style>
<script>

function validateform() {
 var x = document.forms["myForm"]["fname"].value;
 if (x==""){
            alert("Name must be filled out");
            return false;
 }
}
</script>
</head>
<body>

<form name="myForm" action="/form_validation.php" onsubmit="return
validateform()" method="post">
<H1 align="center" color="blue">MCA FISAT ADDMISSION 2021</h1>
<br>
<b>Basic Details</b>

<br><br>

Name
<input class="space1" type="text" name="fname">
<br><br>

Permanent Address
<h class="space2">Address Line #1</h>
```

```
<h
class="space1">         &n
bsp;  Address Line #2</h><br><br>

                <input class="space1" type="text" id="add1">

                <input class="space1" type="text" id="add2"><br><br>
<h class="space1">City<h>
<h class="space3">State<h><br><br>
<input class="space1" type="text" id="city">



<input class="space1" type="text" id="state">
<br><br>

<h class="space1">Country</h>
<h class="space3">Pincode</h><br>

<input class="space1" type="text" id="country">
<input class="space1" type="number" id="pin">
<br><br><h class="space1">mobile</h><br>

<input class="space1" type="number" id="mobile"><br><br>
Alternative Contact Number
<input class="space2" type="number" id="altnum"><br><br>
Date of Birth
    <input class="space2" type="date" id="date"><br><br>
Gender
<h class="space1">Male</h><input type="radio" name="gender">
<h class="space2">Female</h><input type="radio" name="gender">
<br><br>
Nationality
        <input class="space2"
type="text" id="nationality">
<br><br>

Email
<input class="space1" type="email" id="email">
<input type=submit value="submit">
<br><br>
</form>
</html>
</body>
```

Output


application
File | /home/stud/Anz34/web%20programming/form_validation.html#
Apps
Gmail
YouTube
Maps
Reading list
MCA FISAT ADDMISSION 2021
Basic Details
Name
Permanent Address
Address Line #1
Address Line #2
City
State
Country
Pincode
mobile
Alternative Contact Number
Date of Birth
dd/mm/yyyy
Gender
Male
Female
Nationality
Email
submit


application
File | /home/stud/Anz34/web%20programming/form_validation.html#
Apps
Gmail
Reading list
This page says
Name must be filled out
OK
Basic Details
Name
Permanent Address
Address Line #1
Address Line #2
City
State
Country
Pincode
mobile
Alternative Contact Number
Date of Birth
dd/mm/yyyy
Gender
Male
Female
Nationality
Email
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.
(String Functions Length,slice, substring, substr,replace, toUppercase, toLowercase, concat,trim,charAt,convert string to array,indexof, search,includes)
(Math Function sround, ceil, floor ,trunc, sign, pow, sqrt, abs, sin ,cos ,min, max, random, log)

Source code

```
<!DOCTYPE html>
<html>
<body bgcolor="ACB67E">

<h1 align="center">String and Math Functions in JavaScript</h1>
<h2>String Functions</h2>
<div>
<p>The Length of the word "New Year" :</p>
<p id="demo1"></p>
</div>
<hr>

<div>
<p>Slice the word "New" from "Happy New Year" using slice function:</p>
<p id="demo2"></p>
</div>
<hr>
<div>
<p>display Substring "Happy" from "Happy New Year" using substring function:</p>
<p id="demo3"></p>
</div>
<hr>
<div>
<p>display Substring "Year" from "Happy New Year" using substr function:</p>
<p id="demo4"></p>
</div>
<hr>
<div>
<p>Replace "Christmas!" with "New Year!" in the paragraph below:</p>
<button onclick="return myFunction()">Click</button>
<p id="demo5">Happy Christmas!</p>
</div>
<hr>
<div>
<p>Convert string to upper case:</p>
```

```
<button onclick="myFunction1()">Click</button>
<p id="demo6">Happy newyear!</p>
</div>
<hr>
<div>
<p>Convert string to lower case:</p>
<button onclick="myFunction2()">Try it</button>
<p id="demo7">Happy New Year!</p>
</div>
<hr>
<div>
<p>The concat() method joins 1 or more strings:</p>
<p id="demo8"></p>
</div>
<hr>
<div>
<p>The trim() Method</p>
<p id="demo9"></p>
</div>
<hr>
<div>
<p>The charAt() method returns the character at a given position in a string:</p>
<p id="demo10"></p>
</div>
<hr>
<div>
<p>Display the first array element, after a string split:</p>
<p id="demo11"></p>
</div>
<hr>
<div>
<p>The indexOf() method returns the position of the first occurrence of a specified
text:</p>
<p id="demo12"></p>
</div>
<hr>
<div>
<p>The search() method returns the position of the first occurrence of a specified text
in a string:</p>
<p id="demo13"></p>
</div>
<hr>
<div>
<p>Check if a string includes "world":</p>
<p id="demo14"></p>
</div>
<hr>
<h2>Math Functions</h2>

<div>
```

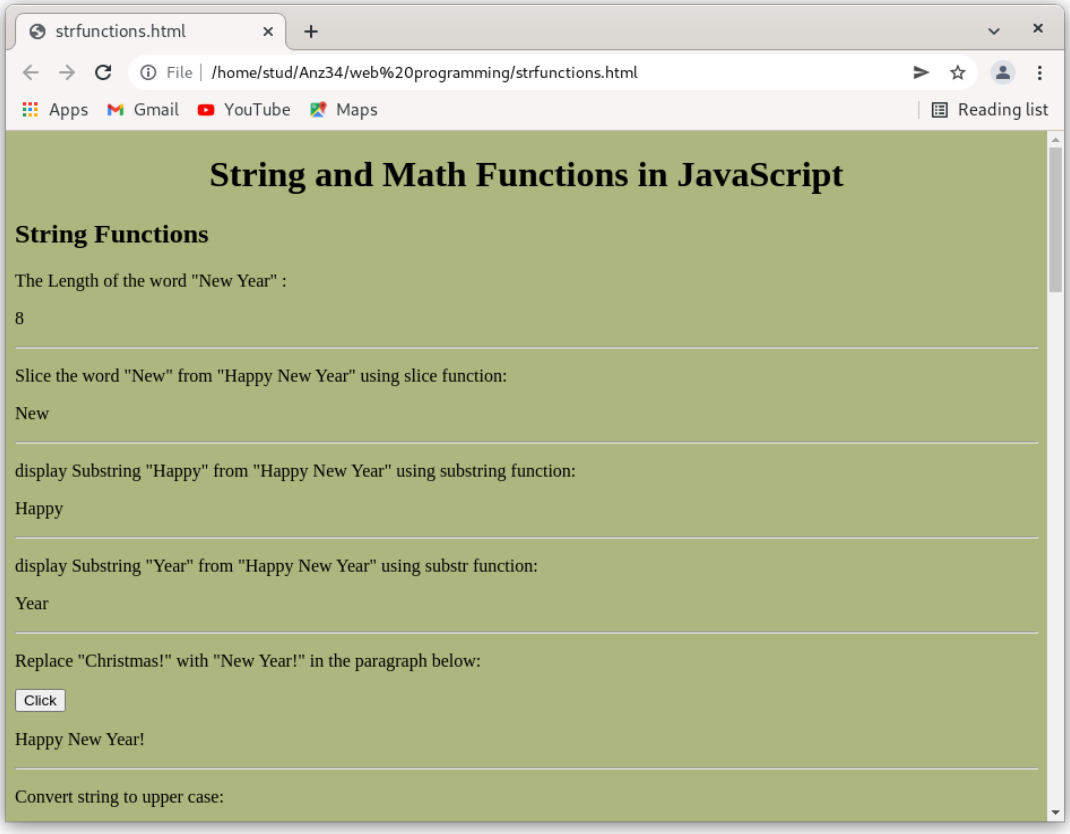
```
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>
<p id="demom1"></p>
</div>
<hr>
<div>
<p>Math.ceil() rounds a number up to its nearest integer:</p>
<p id="demom2"></p>
</div>
<hr>
<div>
<p>Math.floor(x) returns the value of x rounded down to its nearest integer:</p>
<p id="demom3"></p>
</div>
<hr>
<div>
<p>Math.trunc(x) returns the integer part of x:</p>
<p id="demom4"></p>
</div>
<hr>
<div>
<p>Math.sign(x) returns if x is negative, null or positive:</p>
<p id="demom5"></p>
</div>
<hr>
<div>
<p>Math.pow(x,y) returns the value of x to the power of y:</p>
<p id="demom6"></p>
</div>
<hr>
<div>
<p>Math.sqrt(x) returns the square root of x:</p>
<p id="demom7"></p>
</div>
<hr>
<div>
<p>Math.abs(x) returns the absolute (positive) value of x:</p>
<p id="demom8"></p>
</div>
<hr>
<div>
<p>Math.sin(x) returns the sin of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demom9"></p>
</div>
<hr>
<div style="background-color:light-green">
<p>Math.cos(x) returns the cosine of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demom10"></p>
</div>
```

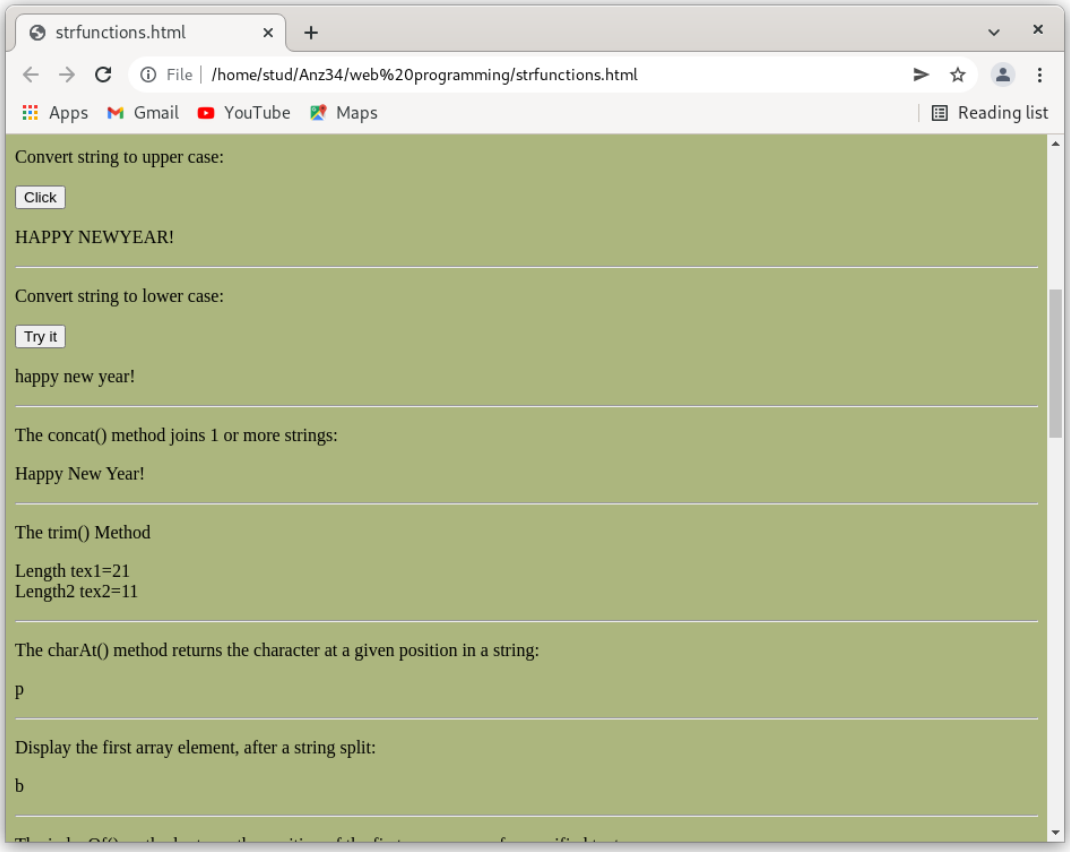
```
<hr>
<div style="background-color:light-green">
<p>Math.min() returns the lowest value in a list of arguments:</p>
<p id="demom11"></p>
</div>
<hr>
<div style="background-color:light-green">
<p>Math.max() returns the highest value in a list of arguments.</p>
<p id="demom12"></p>
</div>
<hr>
<div style="background-color:light-green">
<p>Math.random() returns a random number between 0 and 1:</p>
<button onclick="return ran()">Run</button>
<p id="demom13"></p>
<p>Tip: Click on "Run" several times.</p>
</div>
<hr>
<div style="background-color:light-green">
<p>Math.log() returns the natural logarithm of a number:</p>
<p id="demom14"></p>
</div>
<script>
let text = "New Year";
document.getElementById("demo1").innerHTML = text.length;

let str = "Happy New Year";
document.getElementById("demo2").innerHTML = str.slice(6,9);

let str2 = "Happy New Year";
document.getElementById("demo3").innerHTML = str.substring(0,5);

let str3 = "Happy New Year";
document.getElementById("demo4").innerHTML = str.substr(10,4);

function myFunction() {
  let text = document.getElementById("demo5").innerHTML;
  document.getElementById("demo5").innerHTML =
  text.replace("Christmas!","New Year!");
}

function myFunction1() {
  let text = document.getElementById("demo6").innerHTML;
  document.getElementById("demo6").innerHTML =
  text.toUpperCase();
}

function myFunction2() {
  let text = document.getElementById("demo7").innerHTML;
  document.getElementById("demo7").innerHTML =
```

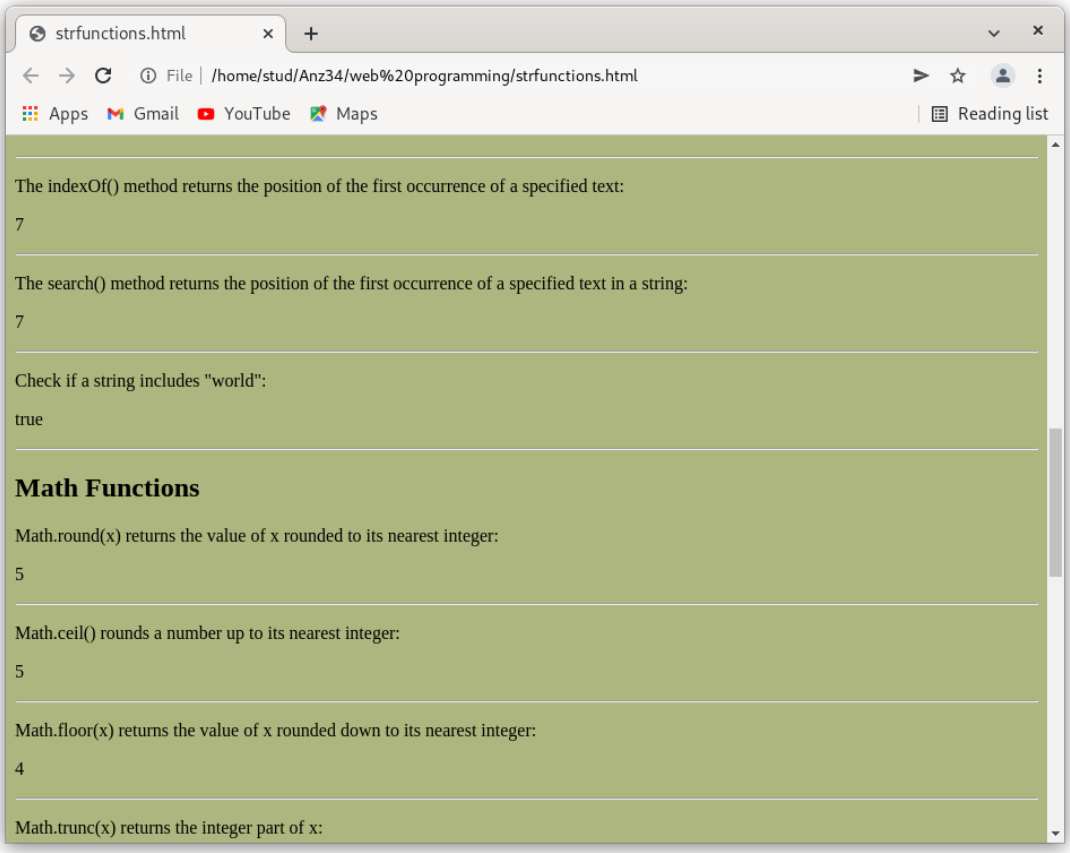
```
  text.toLowerCase();
}

let text1 = "Happy";
let text2 = "New Year!";
let text3 = text1.concat(" ",text2);
document.getElementById("demo8").innerHTML = text3;

let tex1 = "     happy days!     ";
let tex2 = tex1.trim();
document.getElementById("demo9").innerHTML =
"Length tex1=" + tex1.length + "<br>Length2 tex2=" + tex2.length;

var te = "Happy";
document.getElementById("demo10").innerHTML = te.charAt(3);

let textt = "a,b,c,d,e,f";
const myArray = textt.split(",");
document.getElementById("demo11").innerHTML = myArray[1];

let strr = "Please locate where 'locate' occurs!";
document.getElementById("demo12").innerHTML = strr.indexOf("locate");

let sstr = "Please locate where 'locate' occurs!";
document.getElementById("demo13").innerHTML = sstr.search("locate");

let ttext = "Hello world, welcome to the universe.";
document.getElementById("demo14").innerHTML = ttext.includes("world");

document.getElementById("demom1").innerHTML = Math.round(4.5);

document.getElementById("demom2").innerHTML = Math.ceil(4.4);

document.getElementById("demom3").innerHTML = Math.floor(4.7);

document.getElementById("demom4").innerHTML = Math.trunc(4.7);

document.getElementById("demom5").innerHTML = Math.sign(6);

document.getElementById("demom6").innerHTML = Math.pow(4,3);

document.getElementById("demom7").innerHTML = Math.sqrt(64);

document.getElementById("demom8").innerHTML = Math.abs(-7.4);

document.getElementById("demom9").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);

document.getElementById("demom10").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
```

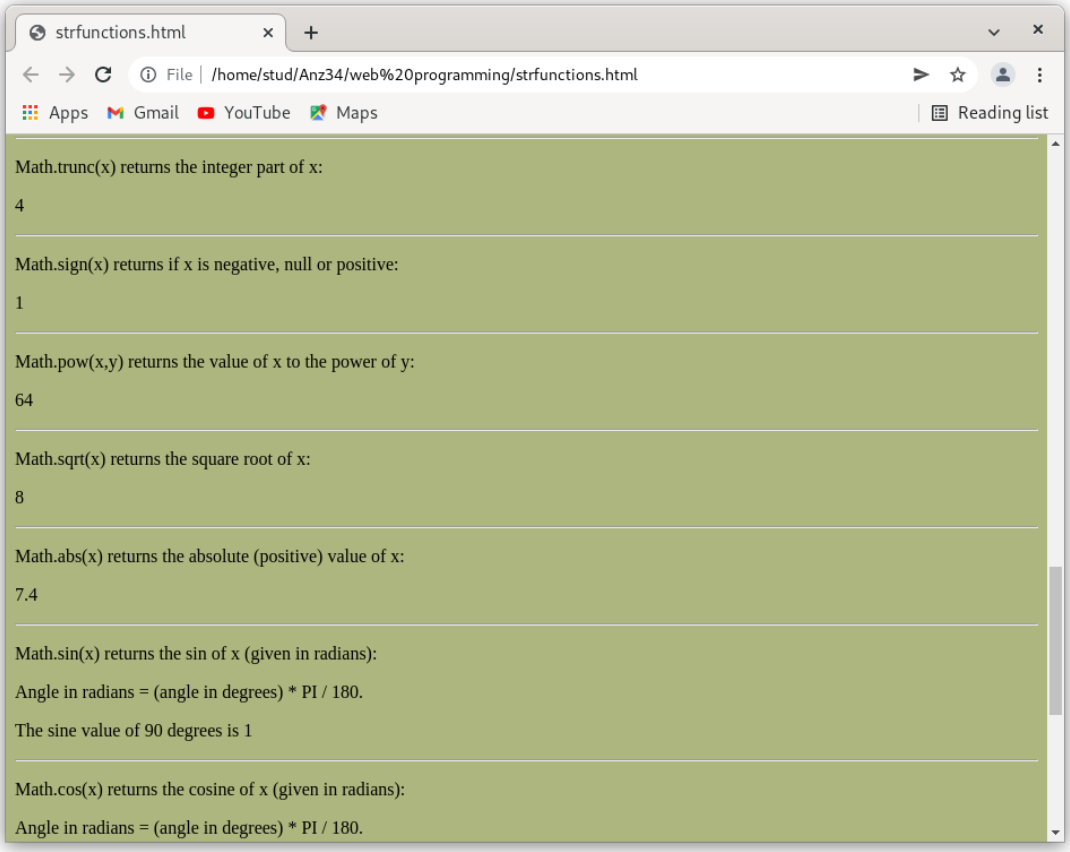
```
document.getElementById("demom11").innerHTML =
Math.min(0, 15, 30, 10, -2, -20);

document.getElementById("demom12").innerHTML =
Math.max(12, 15, 30, 20, -8, -20);

function ran(){
  let x= document.getElementById("demom13").innerHTML = Math.random();
}

document.getElementById("demom14").innerHTML = Math.log(1);
</script>

</body>
</html>
```

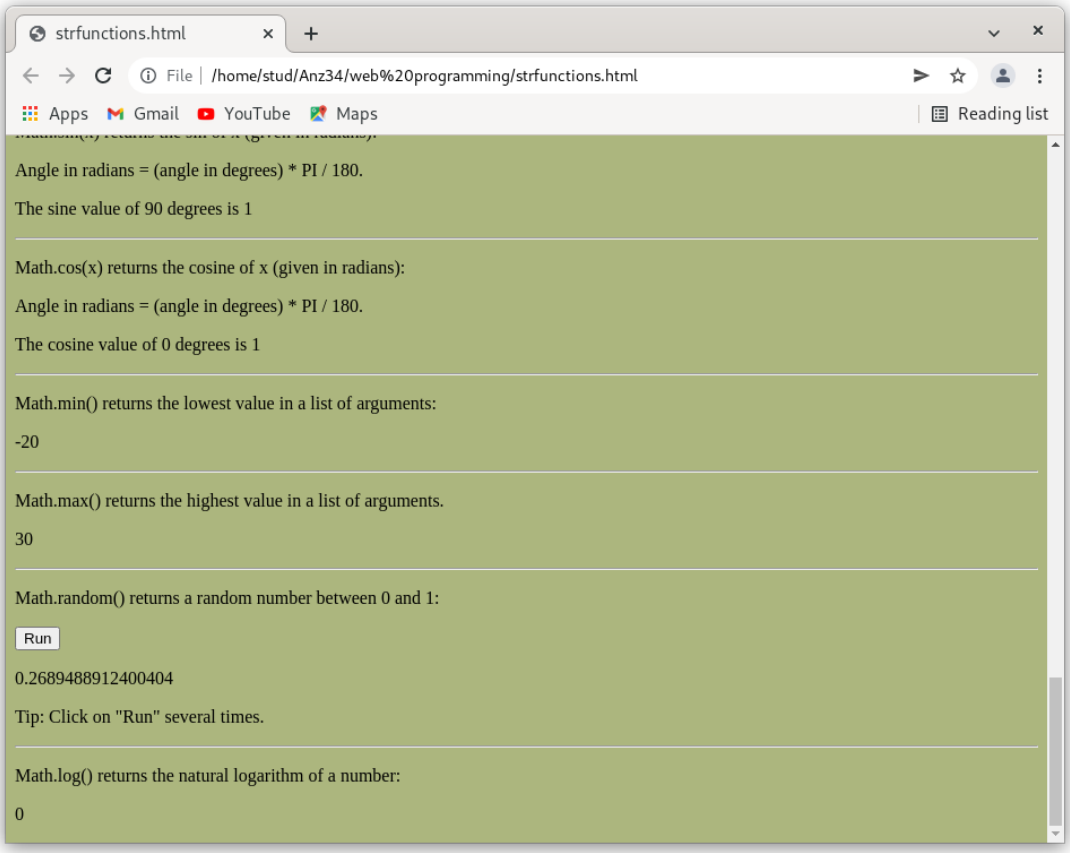
Output




strfunctions.html
File | /home/stud/Anz34/web%20programming/strfunctions.html
Apps
Gmail
YouTube
Maps
Reading list
Convert string to upper case:
Click
HAPPY NEWYEAR!
Convert string to lower case:
Try it
happy new year!
The concat() method joins 1 or more strings:
Happy New Year!
The trim() Method
Length tex1=21
Length2 tex2=11
The charAt() method returns the character at a given position in a string:
p
Display the first array element, after a string split:
b


strfunctions.html
File | /home/stud/Anz34/web%20programming/strfunctions.html
Apps
Gmail
YouTube
Maps
Reading list
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:
7
Check if a string includes "world":
true
Math Functions
Math.round(x) returns the value of x rounded to its nearest integer:
5
Math.ceil() rounds a number up to its nearest integer:
5
Math.floor(x) returns the value of x rounded down to its nearest integer:
4
Math.trunc(x) returns the integer part of x:


strfunctions.html
File | /home/stud/Anz34/web%20programming/strfunctions.html
Apps Gmail YouTube Maps
Reading list
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:
7.4
Math.sin(x) returns the sin of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
The sine value of 90 degrees is 1
Math.cos(x) returns the cosine of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.


strfunctions.html
File | /home/stud/Anz34/web%20programming/strfunctions.html
Apps Gmail YouTube Maps
Reading list
Angle in radians = (angle in degrees) * PI / 180.
The sine value of 90 degrees is 1
Math.cos(x) returns the cosine of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
The cosine value of 0 degrees is 1
Math.min() returns the lowest value in a list of arguments:
-20
Math.max() returns the highest value in a list of arguments.
30
Math.random() returns a random number between 0 and 1:
Run
0.2689488912400404
Tip: Click on "Run" several times.
Math.log() returns the natural logarithm of a number:
0

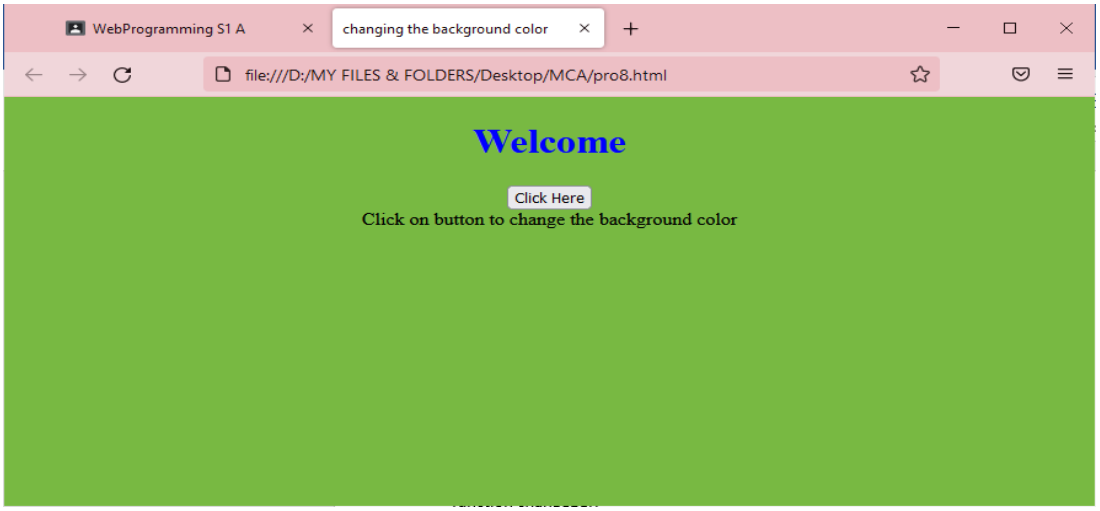
Experiment No:8

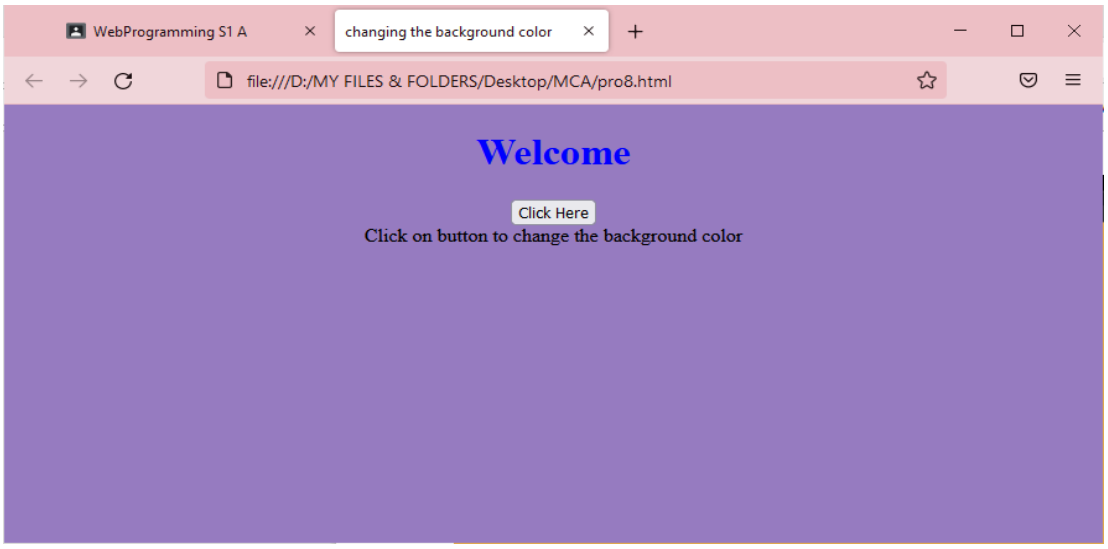
Aim: Create a HTML page to change the background color for every click of a button using JavaScript Event Handling

Source code

```
<!DOCTYPE HTML>
<html>
<head>
<title>
changing the background color
</title>
</head>
<body style = "text-align:center;">
<h1 style = "color:blue;" >
Welcome
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here
</button>
<br>
<script>
document.writeln( "Click on button to change the background color");
const pageBody = document.querySelector("body");
function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFF<<0).toString(16);
pageBody.style.background = color;
}
</script>
</body>
</html>
```

Output


WebProgramming S1 A
changing the background color
file:///D:/MY FILES & FOLDERS/Desktop/MCA/pro8.html
Welcome
Click Here
Click on button to change the background color


WebProgramming S1 A
changing the background color
file:///D:/MY FILES & FOLDERS/Desktop/MCA/pro8.html
Welcome
Click Here
Click on button to change the background color

Experiment No:9

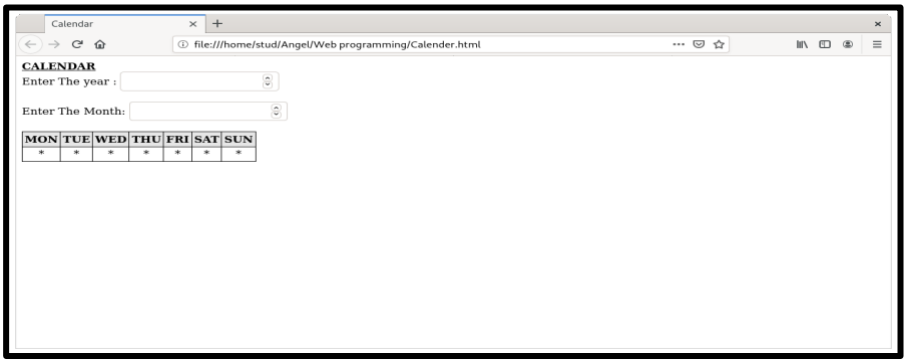
Aim: Generate the calendar using JavaScript code by getting the year and month from the user.

Source code

```
<!DOCTYPE HTML>
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
}
th {
font-weight: bold;
background-color: #5ddedc;
}
</style>
</head>
<body>
<b>CALENDAR</b><br><br>
Enter The year : <input type="number" name="cal" id="cal" /><br><br>
Enter The Month: <input type="number" name="month" id="month" /><br><br>
<div id="calendar"></div>
<script>
var year = document.getElementById("cal").value;
var month = document.getElementById("month").value;
function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
}
function createCalendar(elem, year, month) {
let mon = month - 1;
let d = new Date(year, mon);
let table =
'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</t
h><th>
SAT</th><th>SUN</th></tr><tr>';
for (let i = 0; i < getDay(d); i++)
{
table += '<td>*</td>';
}
```

```
while (d.getMonth() == mon) {
table += '<td>' + d.getDate() + '</td>';
if (getDay(d) % 7 == 6) {
table += '</tr><tr>';
}
d.setDate(d.getDate() + 1);
}
if (getDay(d) != 0) {
for (let i = getDay(d); i < 7; i++) {
table += '<td>*</td>';
}
}
table += '</tr></table>';
elem.innerHTML = table;
}
createCalendar(calendar, year, month);
</script>
</body>
</html>
```

Output



Experiment No:10

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

Source code

Electricity_bill.php

```
<html>
 <head><title>Electricity Board</title></head>
 <body>
 <form align="left" name="bill" action="http://localhost/~stud/electricity_bill1.php"
method="post">

 <font color="black">
 <h1>          Electri
city Board</h1>
          Consumer
Number: <input type="number" name="cno"><br><br>
          Customer name:
<input type="text" name="uname"><br><br>
          Unit: <input
type="number" name="unit"><br><br>
            &nb
sp;       <input type="submit"
value="Submit">
 </font>
 </form>
```

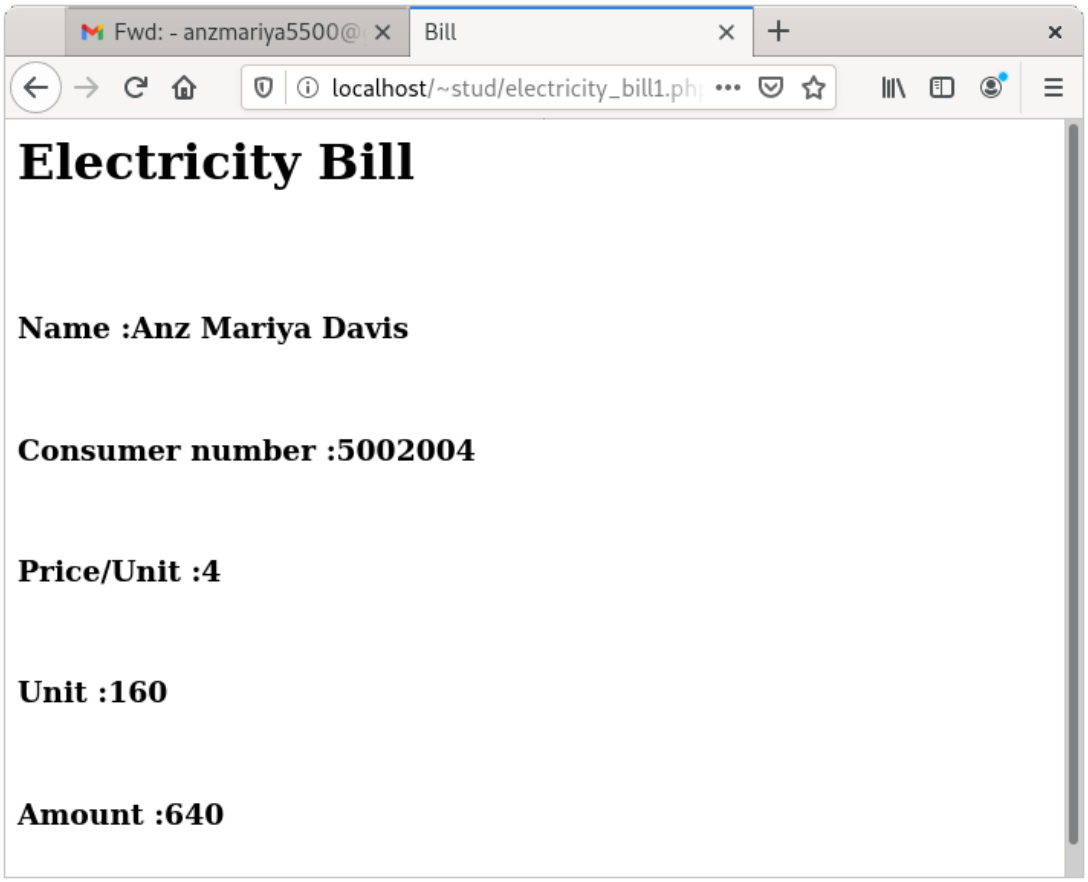
Electricity_bill1.php

```
<html>
 <head><title>Bill</title></head>
 <body>
  <h1>Electricity Bill</h1>
  <br><br>
  <h3>Name :<?php echo $_POST["uname"];?></h3><br>
  <h3>Consumer number :<?php echo $_POST["cno"];?></h3><br>
  <h3>Price/Unit :<?php $p=4; echo $p;?></h3><br>
  <h3>Unit :<?php echo $_POST["unit"];?></h3><br>
  <h3>Amount :<?php echo $_POST["unit"]*4;?></h3><br>
 </body>
</html>
```

```
<html>
 <head><title>Bill</title></head>
 <body>
  <h1>Electricity Bill</h1>
  <br><br>
  <h3>Name :<?php echo $_POST["uname"];?></h3><br>
  <h3>Consumer number :<?php echo $_POST["cno"];?></h3><br>
  <h3>Price/Unit :<?php $p=4; echo $p;?></h3><br>
```

```
 <h3>Unit :<?php echo $_POST["unit"];?></h3><br>
 <h3>Amount :<?php echo $_POST["unit"]*4;?></h3><br>
</body>
</html>
```

Output



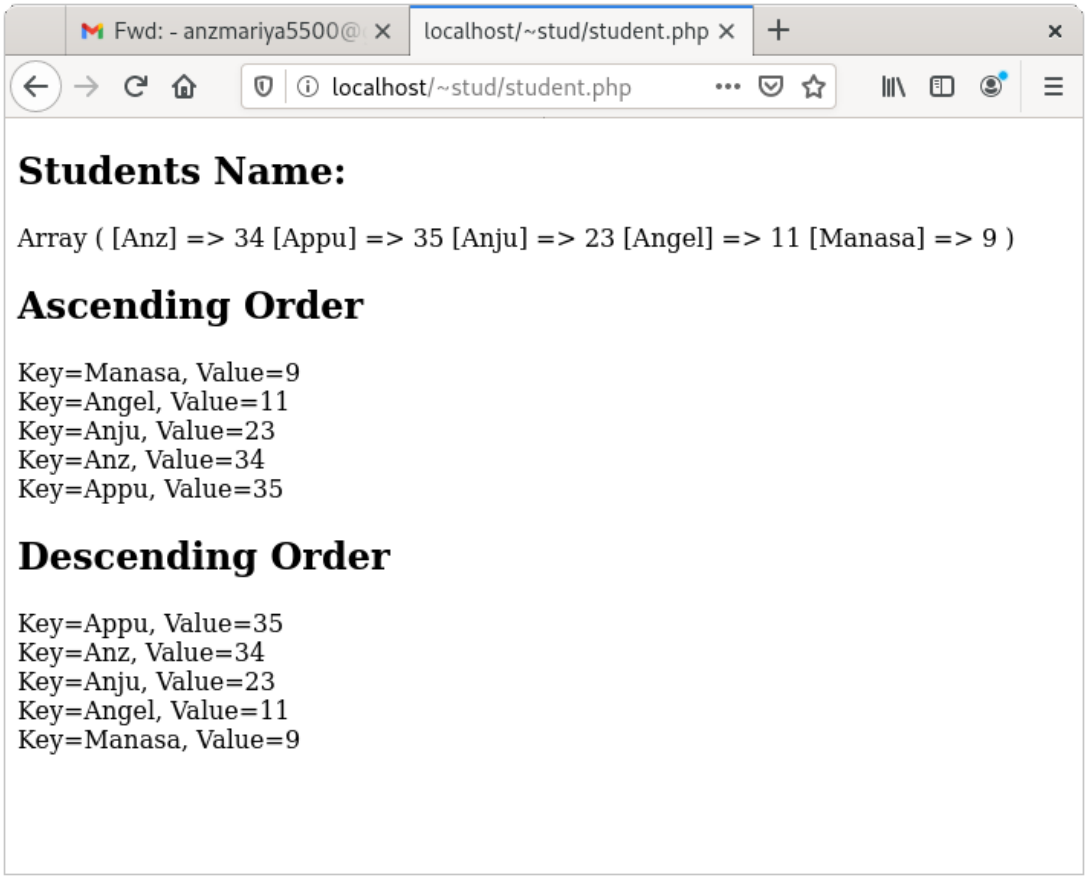
Experiment No:11

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

Source code

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

?>

</html>
```

Output


Fwd: - anzmariya5500@
localhost/~stud/student.php
localhost/~stud/student.php
Students Name:
Array ([Anz] => 34 [Appu] => 35 [Anju] => 23 [Angel] => 11 [Manasa] => 9)
Ascending Order
Key=Manasa, Value=9
Key=Angel, Value=11
Key=Anju, Value=23
Key=Anz, Value=34
Key=Appu, Value=35
Descending Order
Key=Appu, Value=35
Key=Anz, Value=34
Key=Anju, Value=23
Key=Angel, Value=11
Key=Manasa, Value=9

Experiment No:12

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

Source code

```
<!DOCTYPE html>
<html>
<body>
 <?php
 $Indcricketers= array("M S Dhoni", "Virat Kohli", "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>M S Dhoni</td>
</tr>
<tr>
<td>2</td>
<td>Virat Kohli</td>
</tr>
<tr>
<td>3</td>
<td>Rohit Sharma</td>
</tr>";
 ?>
</body>
```

</html>

Output

Indian Cricketers: M S Dhoni, Virat Kohli and Rohit Sharma.

INDIAN CRICKETERS

NO	NAMES
1	M S Dhoni
2	Virat Kohli
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.

Source code

book_info.html

```
<doctype html>
<html>
<head>
<title>book</title>
</head>
<body>
<center><u><b>Book Information System</b></u><br><br>
<a href="add_book.html">Add Book</a><br>
<a href="search.html">Search Book</a><br>
</center>
</body>
</html>
```

add_book.html

```
<!doctype html>
<html>
<head><title>add book</title></head>
<body align="center">
<form name="frm1" action="add1.php" method="post">
<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="Aut"><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"><br>
</form>
</body>
</html>
```

add1.php

```
<!doctype html>
<html>
<?php
$num=$_POST['num'];
$tit=$_POST['tit'];
$Aut=$_POST['Aut'];
```

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

search.html

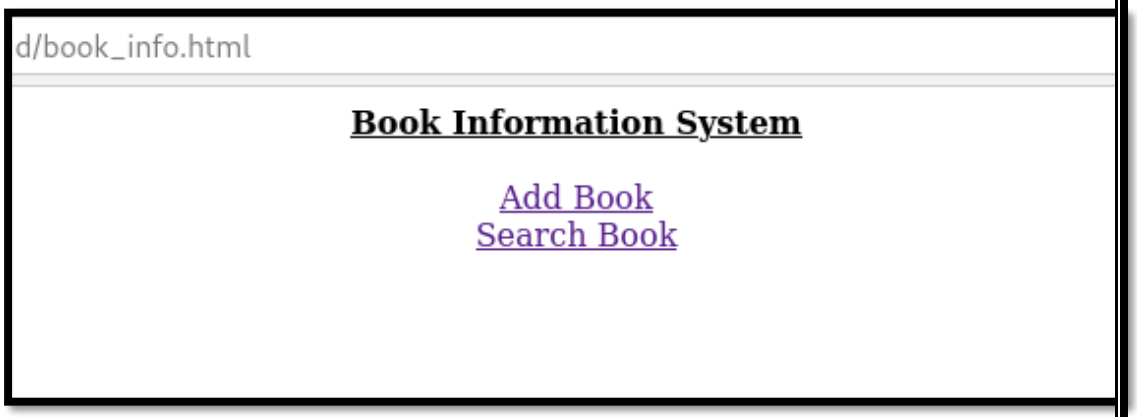
```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="search1.php" method="POST">
<center>
<b><u>SEARCH A BOOK</u></b><br>
Enter book title:<input type="text" name="tit"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

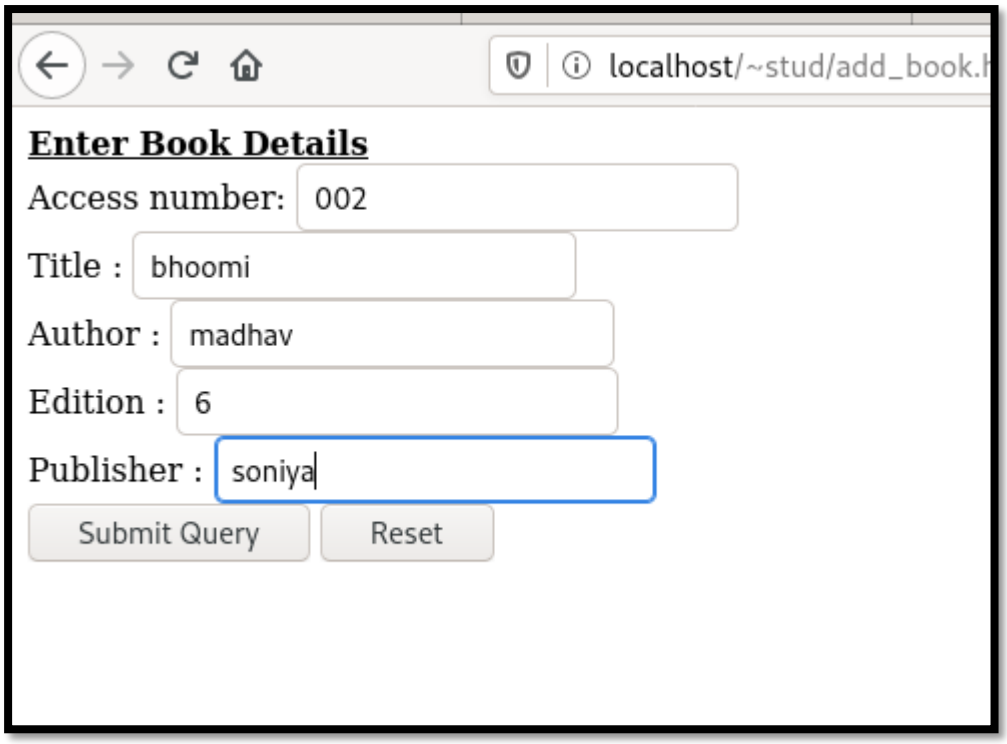
search1.php

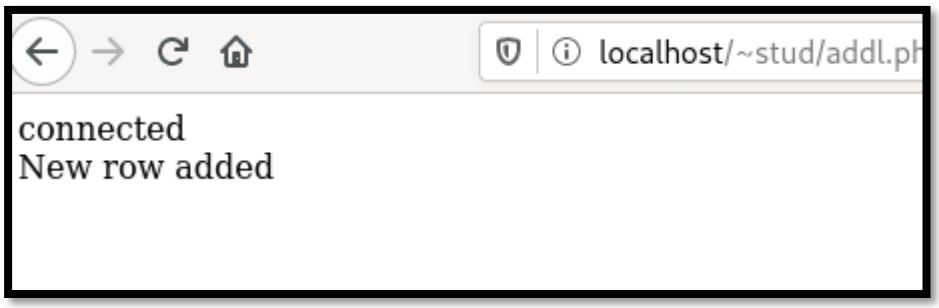
```
<!doctype html>
<?php
$title=$_POST['tit'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
```

```
}
$sql="select * from BOOK where TITLE='$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();
?>
</html>
```

Output

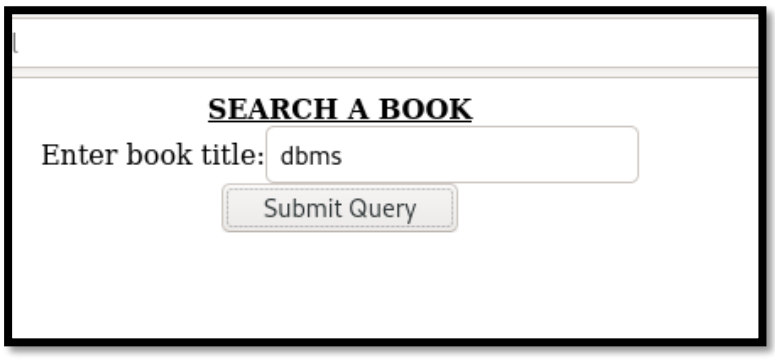



localhost/~stud/add_book.
Enter Book Details
Access number: 002
Title : bhoomi
Author : madhav
Edition : 6
Publisher : soniya
Submit Query
Reset


localhost/~stud/addl.ph
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]>
```



Experiment No:14

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

Source code

Airline.html

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

Add.html

```
<html>
<head>
<title>Airline details</title></head>
<style>
label {
display: inline-block;
width: 300px;
}
</style>
<body>
```

```
<form name="frm1" action="addl.php" method="POST">
<b><u>Enter Airline Details</u></b><br><br>
<label>Airline Number:</label>
<input type="number" name="num"><br></b><br>
<label>Name:</label>
<input type="text" name="name"><br></b><br>
<label>Source:</label>
<input type="text" name="src"><br></b><br>
<label>Destination:</label><input type="text" name="dstn"><br></b><br>
<label>Date:</label><input type="date" name="date"><br></b><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

Addl.php

```
<?php
$num=$_POST['num'];
$name=$_POST['name'];
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$date=$_POST['date'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect\n";
}
else
{
echo "connected\n";
}
$sql="INSERT INTO airline028 VALUES($num,'$name','$src','$dstn','$date')";
if($con->query($sql))
{
echo "<BR>";
```

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

Search.html

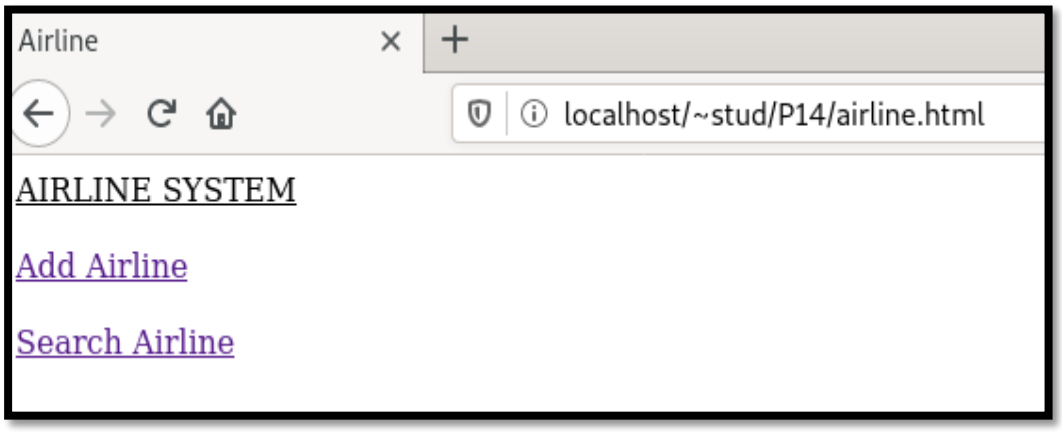
```
<html>
<head>
<title>search</title>
<style>
label {
display: inline-block;
width: 300px;
}
</style>
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH AIRLINE</u></b><br><br>
<label>Enter Source:</label>
<input type="text" name="src"><br><br>
<label>Enter Destination: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

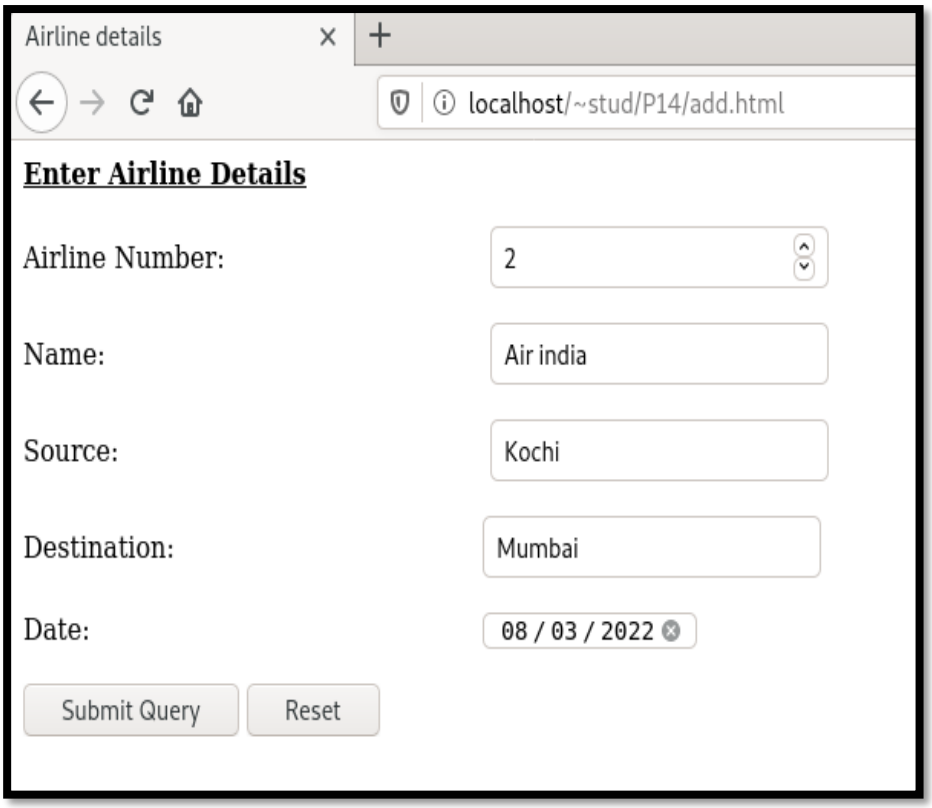
Search.php

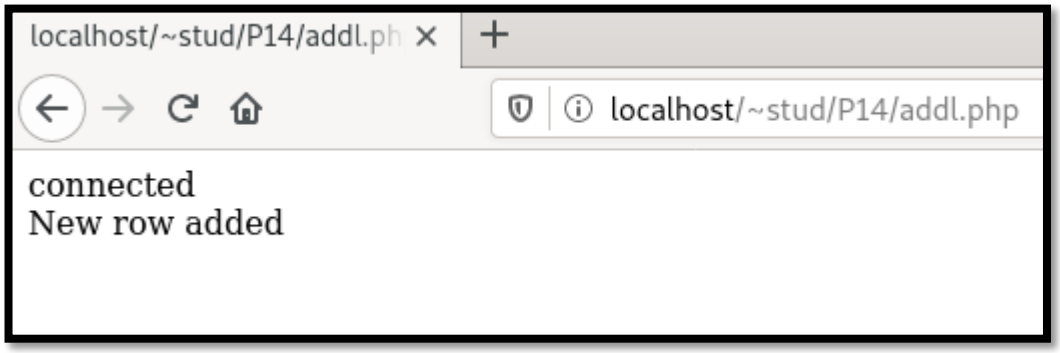
```
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
```

```
else
{
echo "connected\n";
}
$sql="select * from airline028 where Source='$src' and Destination='$dstn'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
  $row[4]."\n\n";}

$result->close();
}
else
{
echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

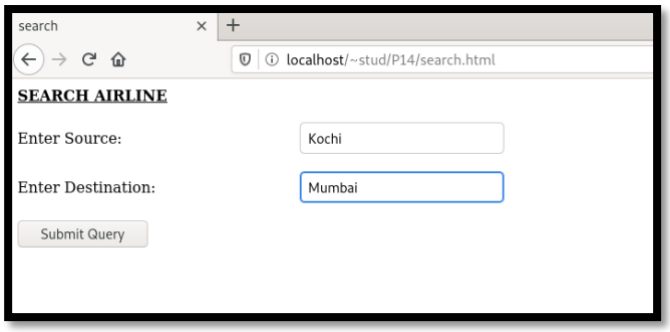
Output

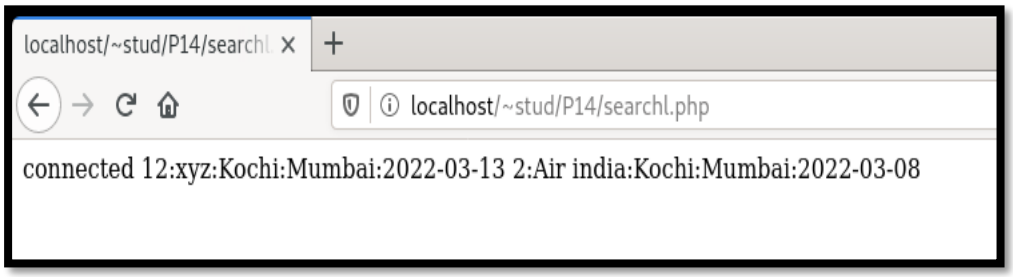







```
MariaDB [fisatdb]> select * from airline028;
+----------------+------+-----------+-------------+------------+
| Airline_number | Name | Source    | Destination | Date       |
+----------------+------+-----------+-------------+------------+
|             16 | ABC  | TVM       | Pune        | 2022-02-28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


search
localhost/~stud/P14/search.html
SEARCH AIRLINE
Enter Source:
Kochi
Enter Destination:
Mumbai
Submit Query


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