

# **FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)<sup>TM</sup>**

**HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577**



**FOCUS ON EXCELLENCE**

**20MCA133.WEB PROGRAMMING LAB**

**LABORATORY RECORD**

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**Branch: MASTER OF COMPUTER APPLICATIONS**

**Semester: 1      Batch: A      Roll No: 21**

**University Registration Number: FIT21MCA-2021**

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# FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)<sup>TM</sup>

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 ANGEL BABU (FIT21MCA-2021) 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

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<b>3</b>	<b>08/11/2021</b>	Create an application form for MCA course in FISAT.	<b>10</b>	
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<b>11</b>	<b>10/01/2022</b>	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.	<b>47</b>	
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**Experiment No: 1**

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

**Source code**

```
<html>
<head><title>My Place</title>
<style>
</style>
</head>
<body>
<h1 align="center"><font color="red">THRISSUR</font></h1><br>
<p><b>Thrissur </b>(formerly Trichur) is a district of Kerala situated in the central
part of the state. Spanning an area of about 3,032 km2 (1,171 sq mi), Thrissur district is
home to over 9% of Kerala's population. Thrissur district is bordered by the districts of
Palakkad and Malappuram to the north, and the districts of Ernakulam and Idukki to the
south and Coimbatore to the east. The Arabian Sea lies to the west and Western Ghats
stretches towards the east. Thrissur district was formed on 1 July 1949, with the headquarters
at Thrissur City. Thrissur is known as the cultural capital of Kerala, and the land of
Poorams. The district is known for its ancient temples, churches, and mosques. Thrissur
Pooram is the most colourful temple festival in Kerala.</p><br>
<center></center>
<ul>
<li><h3>HISTORY</h3></li>
<p>From ancient times, Thrissur District has played a part in the political history of
Kerala. The early political history of the District is interlinked with that of the Cheras of the
Sangam age, who ruled over vast portions of Kerala with their capital at Vanchi. The whole
of the present Thrissur District was included in the early Chera Empire. The District can
claim to have played a part in fostering the trade relations between Kerala and the outside
world in the ancient and medieval period. <i>Kodungalloor</i>, which had the distinction of
being the "Premium Emporium of India", gave shelter to all the three communities which
have contributed to the prosperity of Malabar. These three communities are the Christians,
the Jews and the Muslims. The history of Thrissur district from the 9th to the 12th centuries
```

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

### FESTIVALS

Thrissur is known as the *Cultural Capital of Kerala*, the city enjoys a thriving cultural

tradition dating back to centuries. Thrissur Pooram, the largest pooram in Kerala, is sometimes

referred to as 'the pooram of all poorams'. It is celebrated every year in the month of Medam (mid

April to mid-May)

as per the Malayalam calendar. For thirty-six hours, the city plays host to a large gathering of people

and elephants.

Puli Kali, also known as Kavakali, is another festival, which attracts thousands of people to the city.

It is performed by trained artists to entertain people on the occasion of Onam, an annual harvest

festival,

celebrated mainly in Kerala.[79][80] Other important festivals celebrated in the city include Christmas, Onam, Easter, Eid and Vishu.

Elephants play a major part in many of the city's festivals.[81][82] Aanayoottu (feeding of elephants),

held in Vadakkunnathan Temple in the City annually,

is the world's largest elephant feeding ceremony. The ceremony is conducted on the first day of the

Malayalam month of Karkidakam.</p>



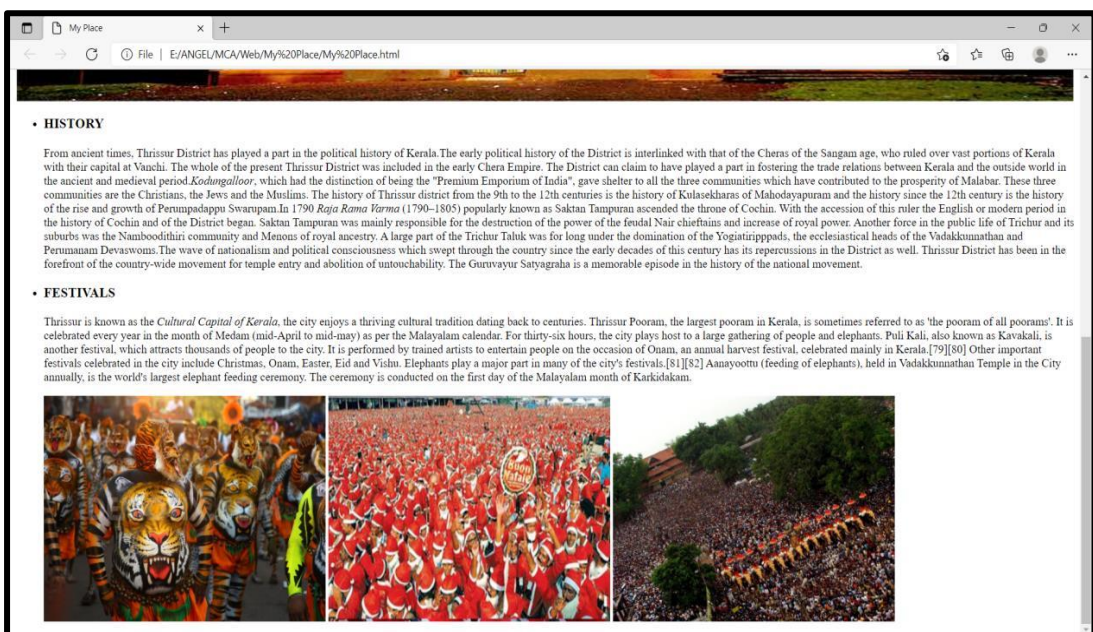
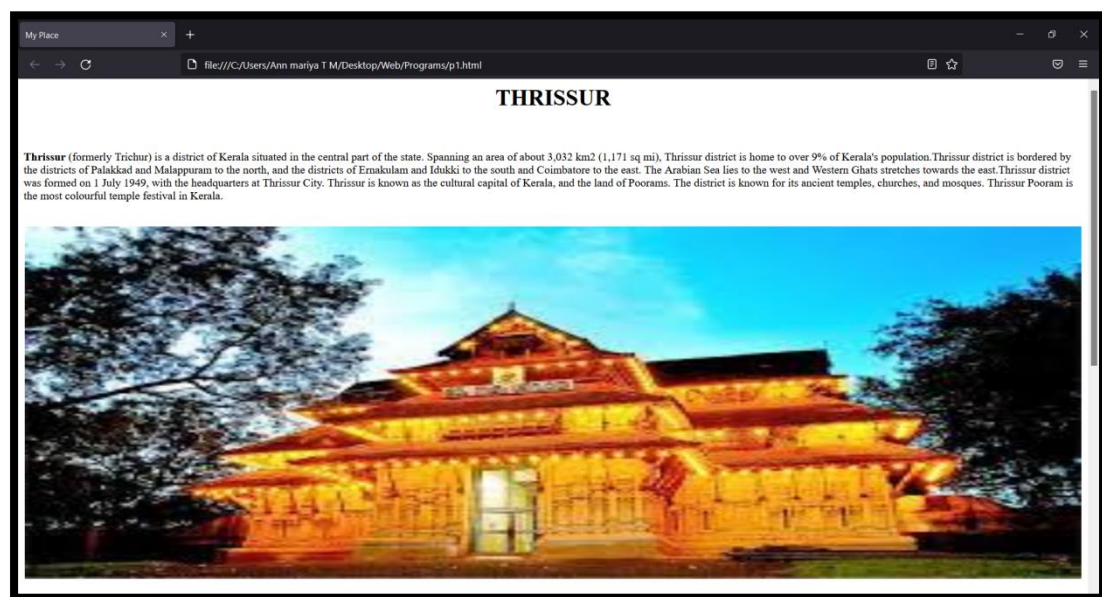




</body>

</html>

## Output



**Experiment No: 2**

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

**Source code**

Main.html

```
<html>
<head>
<title>Biodata</title>
</head>
<body>
<table border="1" width="500" align="center" bgcolor=pink>
<tr>
<td colspan="3"><center>Basic Info</center><hr/></td>
</tr>
<tr>
<td width="50%" align="right">Name:</td>
<td>Angel Babu</td>
</tr>
<tr>
<td align="right">Place:</td>
<td>Thrissur</td>
</tr>
<tr>
<td align="right">Date of Birth:</td>
<td>25 july 2000</td>
</tr>
<tr>
<a href="file:///E:/ANGEL/MCA/Web/biodata/contact.html">click here for contact details</a>
<center></center> </table>
</body> </html>
```



## Contact.html

```

<html>
<head>
<title>contact details</title>
</head>
<body>
<table border="1" width="500" align="center" bgcolor=pink>
<tr>
<td colspan="2"><center>Contact Details<hr/></center></td>
</tr>
<tr>
<td align="right" valign="top">Address:</td>
<td>Valluppara house</td>
</tr>
<tr>
<td align="right" valign="top">Phone Number:</td>
<td>9876543210</td>
</tr>
<tr>
<td align="right">Email Address:</td>
<td>abc213@gmail.com</td>
</tr>
<a href="file:///E:/ANGEL/MCA/Web/biodata/education.html">click here for education
details</a>
</body>
</html>

```

## Education.html

```

<html>
<head>
<title>Education</title></head>
<body>
<table border="1" width="500" align="center" bgcolor=pink>

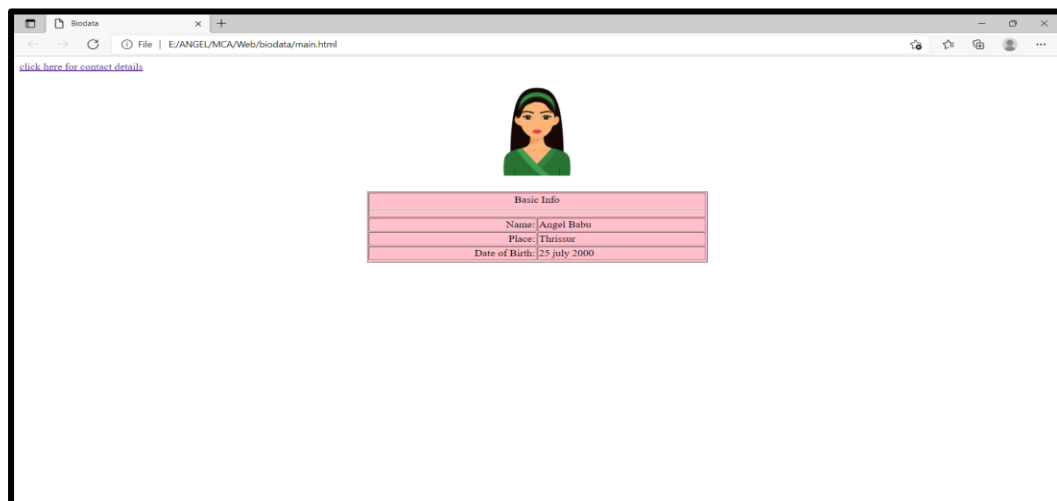
```

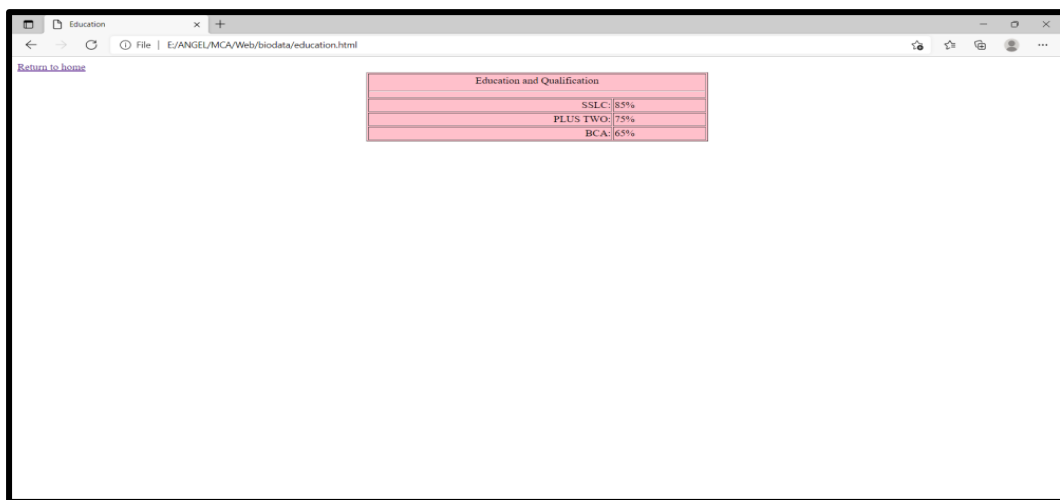
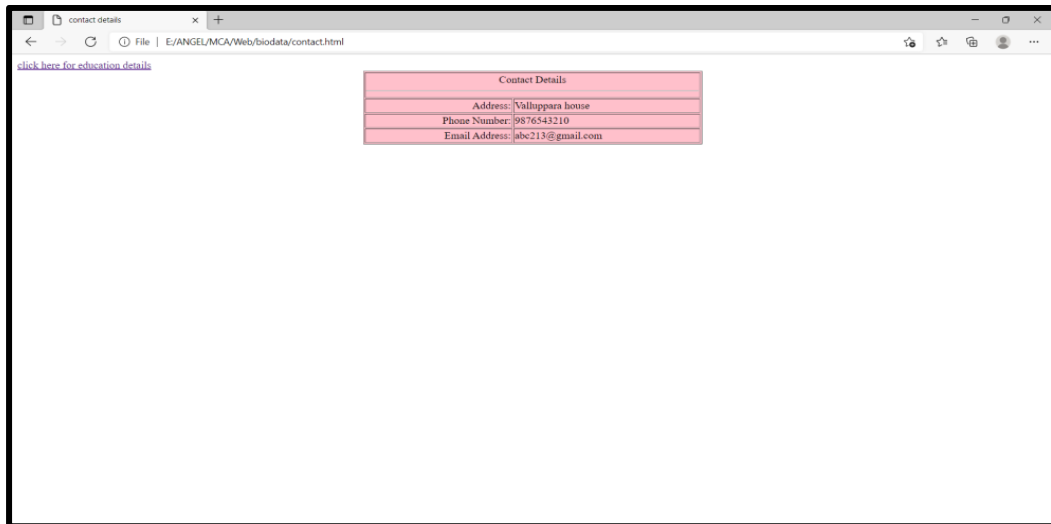
```

<td colspan="2"><center>Education and Qualification<hr/></center></td>
</tr>
<tr>
<td align="right" valign="top">SSLC:</td>
<td>85%</td>
</tr>
<tr>
<td align="right" valign="top">PLUS TWO:</td>
<td>75%</td>
</tr>
<tr>
<td align="right">BCA:</td>
<td>65%</td>
</tr>
<a href="file:///E:/ANGEL/MCA/Web/biodata/main.html">Return to home</a>
</body></html>

```

## Output





**Experiment No: 3**

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

**Source code**

```
<html>

<head>

<title>Application form</title>

<style>

    label {

        display: inline-block;

        width: 300px;

    }

</style>

</head>

<body>

<center></center><br>

<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>

<hr size=5 noshade></hr>

<h2><center><u>Application Form</u></center></h4><br><br>

<form width="600px" align="left">

<h3><i><u>Basic Details</u></i></h3><br>

<label>Name</label>

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

<label>Permanent Address</label>

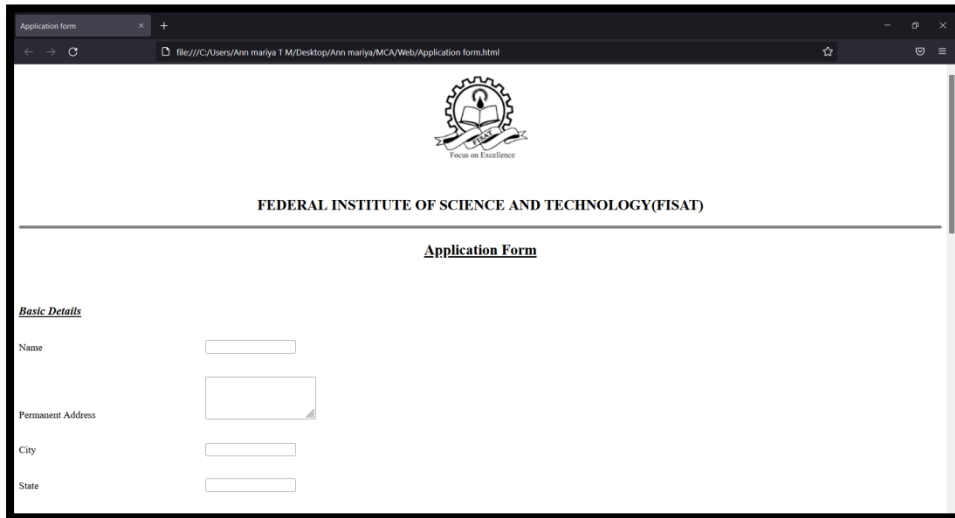
<textarea cols="20" rows="3" required></textarea><br><br><br>
```








## Output



Application form

file:///C:/Users/Ann mariya T M/Desktop/Ann mariya/MCA/Web/Application form.html

  
Focus on Excellence

**FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)**

Application Form

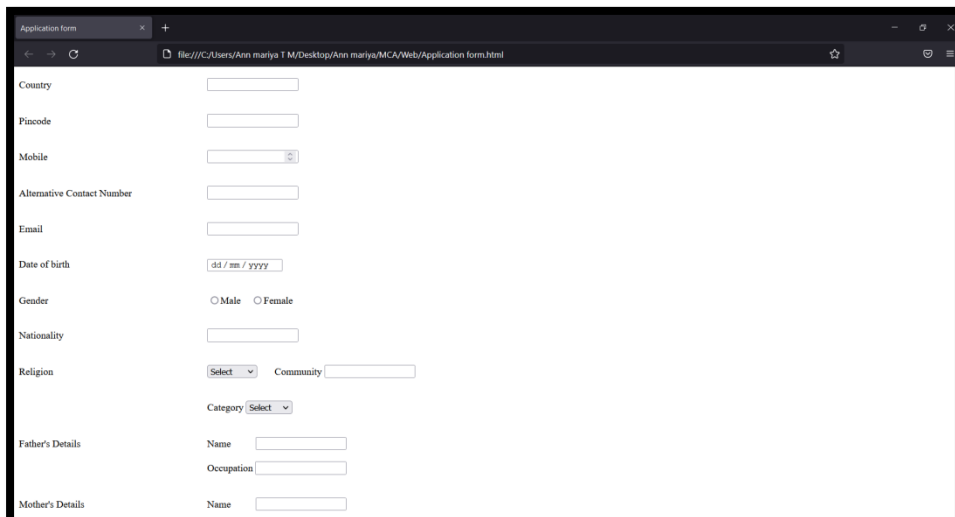
Basic Details

Name

Permanent Address

City

State



Application form

file:///C:/Users/Ann mariya T M/Desktop/Ann mariya/MCA/Web/Application form.html

Country

Pincode

Mobile

Alternative Contact Number

Email

Date of birth

Gender ☐ Male ☐ Female

Nationality

Religion  Community

Category

Father's Details  
Name   
Occupation

Mother's Details  
Name



Mother's Details  
Name   
Occupation

Academic Qualifications

Entrance Rank (If available)

Tenth %

Plus Two %

Graduation Course ☐ Bsc ☐ BCA Others:

Degree Percentage



**Experiment No: 4**

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

**Source code**Main.html

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

Navigation.html

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

Intro.html

```

<html>
<head><title>FISAT</title></head>
<body align="center">

</body>
</html>

```

Course.html

```

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

```

```

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

```

### About.html

```

<html>
<head>
<title>Courses</title>
</head>
<body width=500 align=center>
<p align=justify><b><i>Federal Institute of Science And Technology (FISAT)®
</i></b>is a private self financing Engineering College, established and run by the
<b>Federal Bank Officers Association Educational Society (FBOAES)</b>. The

```

FBOAES is an initiative of the Federal Bank Officers Association (FBOA), the sole representative body of the entire officers of the Federal Bank.

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

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

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

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

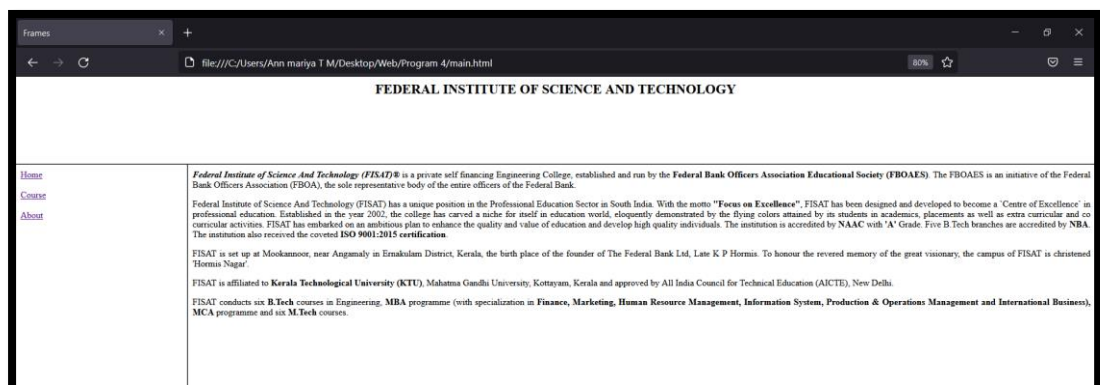
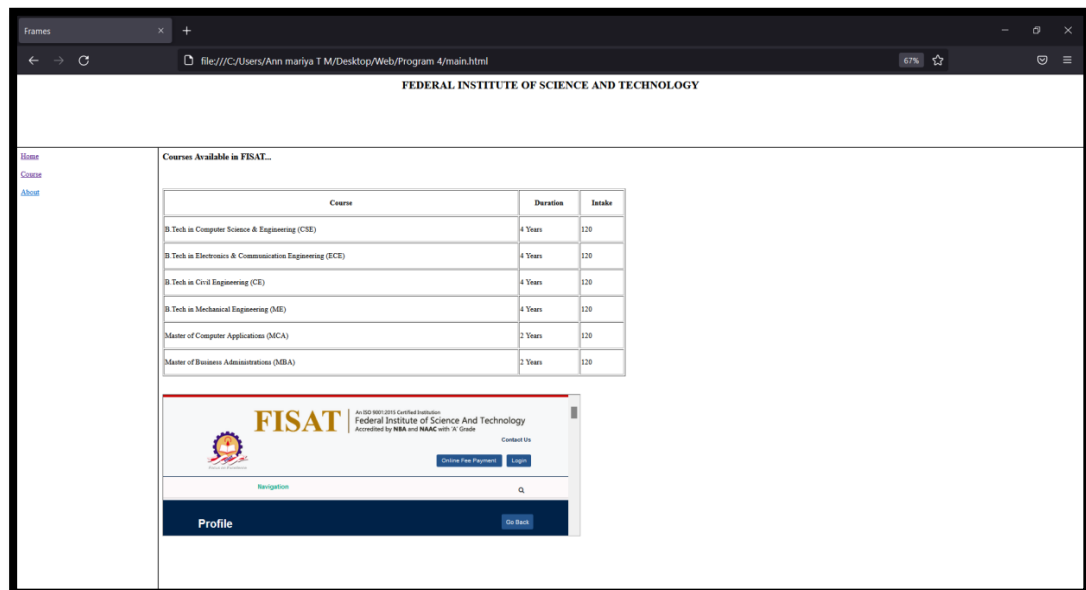
### Why fisat.html

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

### Top.html

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

## Output



**Experiment No: 5**

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

**Source code****Biodata.html**

```
<html>
<head>
<title>Biodata</title>
<link rel="stylesheet" type="text/css" href="stylesheet.css">
<style>
h1 { text-align:center;}
table { width:700px;}
</style>
</head>
<body>
<h1>BIO DATA</h1>
<hr class="hr1"></hr>
<table border="1" width="500" align="center" bgcolor=pink>
<tr>
<h2><td style="color:red;" colspan="3"><center>Basic Info</center><hr/></td></h2>
</tr>
<tr>
<td width="50%" align="right">Name:</td>
<td>Angel Babu</td>
</tr>
<tr>
<td align="right">Place:</td>
<td>Thrissur</td>
</tr>
<tr>
<td align="right">Date of Birth:</td>
```

```
<td>25 july 2000</td>
```

```
</tr>
```

```
<tr>
```

```
<a href="file:///E:/ANGEL/MCA/Web/biodata/contact.html">click here for contact
details</a><center></center>
```

```
</table>
```

```
</body>
```

```
</html>
```

### Contact.html

```
<html>
```

```
<head>
```

```
<title>contact details</title>
```

```
<link rel="stylesheet" type="text/css" href="stylesheet.css">
```

```
<style>
```

```
h1 { text-align:center; }
```

```
table { width:700px; }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<table border="1" width="500" align="center" bgcolor=pink>
```

```
<td colspan="2"><center>Contact Details<hr/></center></td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right" valign="top">Address:</td>
```

```
<td>Valluppara house</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right" valign="top">Phone Number:</td>
```

```
<td style="color:blue;">9876543210</td>
```

```
</tr>
```

```
<tr>
```



```

<td align="right">Email Address:</td>
<td>abc213@gmail.com</td>
</tr><br><br><br>  <button><a
href="file:///E:/ANGEL/MCA/Web/css/education1.html">click here for education
details</a></button>
</body>
</html>

```

### Education.html

```

<html>
<head>
<title>Education</title>
<link rel="stylesheet" type="text/css" href="stylesheet.css">
<style>
h1 {text-align:center;}
table {width:500px;}
</style>
</head>
<body><br><br>
<table border="1" width="400" align="center" bgcolor=pink>
<tr>
<td colspan="2"><center>Education and Qualification<hr/></center></td>
</tr>
<tr>
<td style="color:blue;" align="right" valign="top">SSLC:</td>
<td>85%</td>
</tr>
<tr>
<td style="color:blue;" align="right" valign="top">PLUS TWO:</td>
<td>75%</td>
</tr>
<tr>
<td style="color:blue;" align="right">BCA:</td>

```

```
<td>65% </td> </tr>
```

```
<button><a
```

```
href="file:///E:/ANGEL/MCA/Web/css/biodata1.html">Home</a><button>
```

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

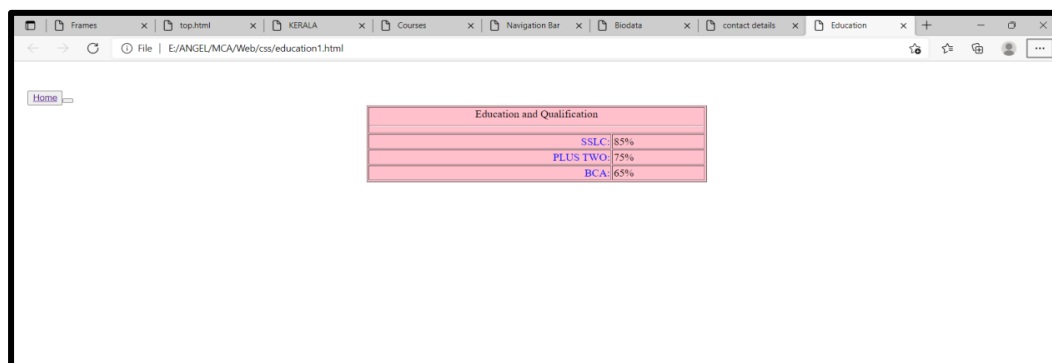
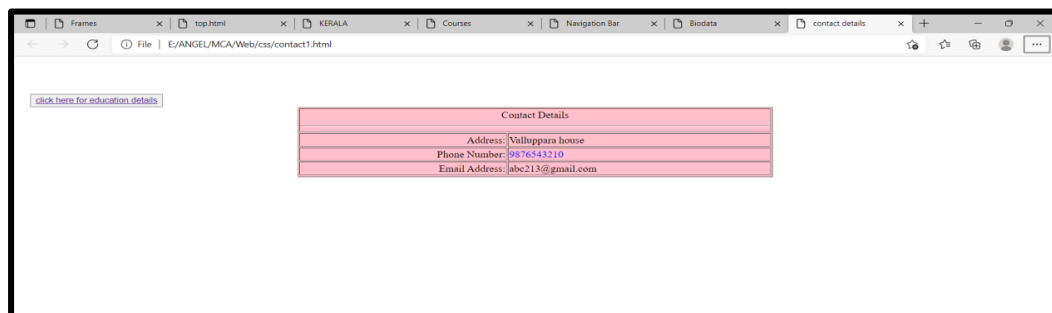
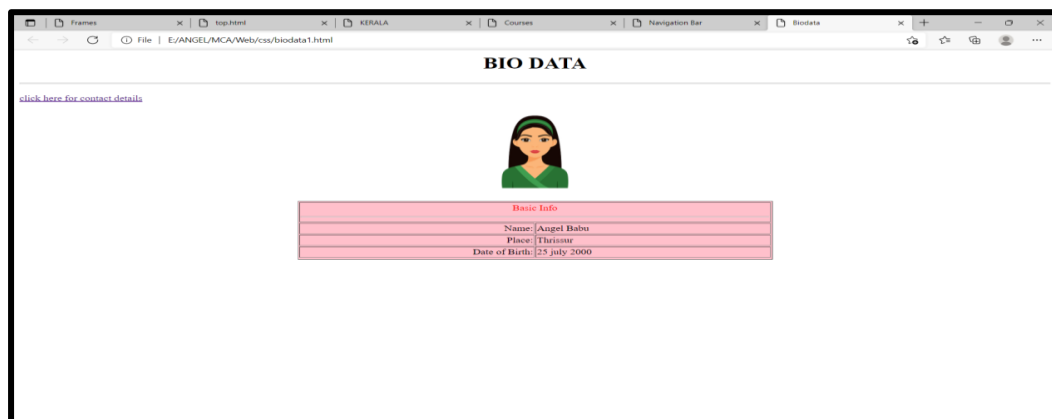
## Stylesheet.css

```
.img {src:avathar.jpg; height:250px; width:400px;}
```

```
.hr1 {size:5 noshade;}
```

```
.hr2 {size:2 noshade;}
```

## Output



**Experiment No:6**

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

**Source code**

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





```

<input type="number"><br><br><br><br>
<center><button name="submit" value="submit">SUBMIT</button></center>

</bt>

</form>

</body>

</html>

```

## Output

The screenshot shows a web browser window titled 'form\_validation.html'. The page features the FISAT logo and the text 'FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)'. Below this is the title 'Application Form'. The form contains four input fields: 'Name', 'Permanent Address', 'City', and 'State'.

The screenshot shows the same web browser window, but now a validation error message is displayed. The message box says 'This page says Name must be filled out' with an 'OK' button. The form fields are the same as in the previous screenshot, but the 'Name' field is highlighted, indicating it is required.

**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 round, ceil, floor ,trunc, sign, pow, sqrt, abs, sin ,cos ,min, max, random, log)

**Source code**

```
<!DOCTYPE html>
```

```
<html>
```

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

```
<h2>JavaScript String Properties</h2>
```

```
-----
```

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

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

```
<script>
```

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

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

```
</script>
```

```
-----
```

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

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

```
<script>
```

```
let str = "January, June, July";
```

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

```
</script>
```

---

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

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

```
<script>
```

```
let str1 = "March, April, October";
```

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

```
</script>
```

---

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

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

```
<script>
```

```
let str2 = "Apple, Banana, Kiwi";
```

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

```
</script>
```

---

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

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

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

```
<script>
```

```
function myFunction1() {
```

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

```
  document.getElementById("demo2").innerHTML =
```

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

```
}
```



```
</script>
```

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

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

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

```
<script>
```

```
function myFunction2() {
```

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

```
    document.getElementById("demo3").innerHTML =
```

```
    text2.toUpperCase();
```

```
}
```

```
</script>
```

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

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

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

```
<script>
```

```
function myFunction3() {
```

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

```
    document.getElementById("demo4").innerHTML =
```

```
    text3.toLowerCase();
```

```
}
```

```
</script>
```

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

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

```
<script>
```

```
let text4 = "Red";
```

```
let text5 = "Rose";
```

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

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

```
</script>
```

---

```
<p>Trim "Red Rose"</p>
```

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

```
<script>
```

```
let text7 = "   Red Rose   ";
```

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

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

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

```
</script>
```

---

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

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

```
<script>
```

```
var text9 = "RED ROSE";
```

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

```
</script>
```

---

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

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

<script>

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

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

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

</script>

---

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

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

<script>

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

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

</script>

---

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

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

<script>

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

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

</script>

---

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

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

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

<script>

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

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

</script>

---

<h2>Javascript Math Functions</h2>

---

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

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

<script>

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

</script>

---

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

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

<script>

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

</script>

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

```
<script>
```

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

```
</script>
```

---

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

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

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

```
<script>
```

```
document.getElementById("demo20").innerHTML =
```

```
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
```

```
</script>
```

---

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

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

```
<p id="demo21"></p>
```

```
<script>
```

```
document.getElementById("demo21").innerHTML =
```

"The cosine value of 0 degrees is " + Math.cos(0 \* Math.PI / 180);

</script>

<p>Math.min() returns the lowest value in a list of arguments:</p>

<p id="demo22"></p>

<script>

document.getElementById("demo22").innerHTML =

Math.min(0, 150, 30, 20, -8, -200);

</script>

<p>Math.max() returns the highest value in a list of arguments.</p>

<p id="demo23"></p>

<script>

document.getElementById("demo23").innerHTML =

Math.max(0, 150, 30, 20, -8, -200);

</script>

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

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

<script>

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

</script>-----

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

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

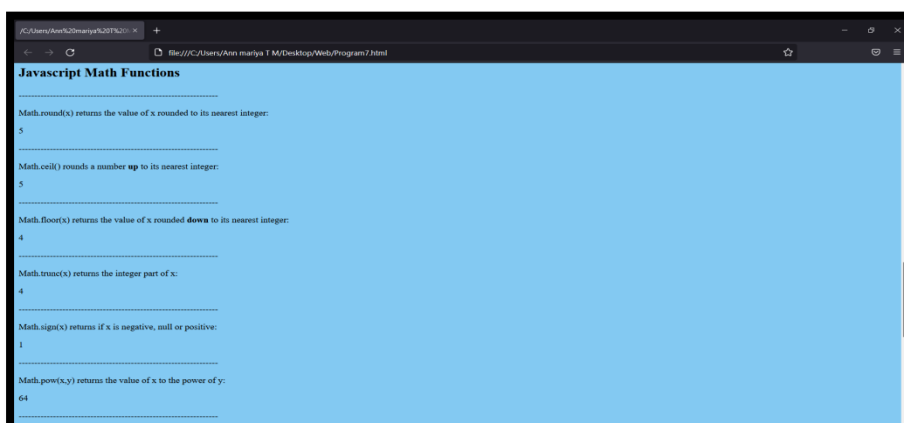
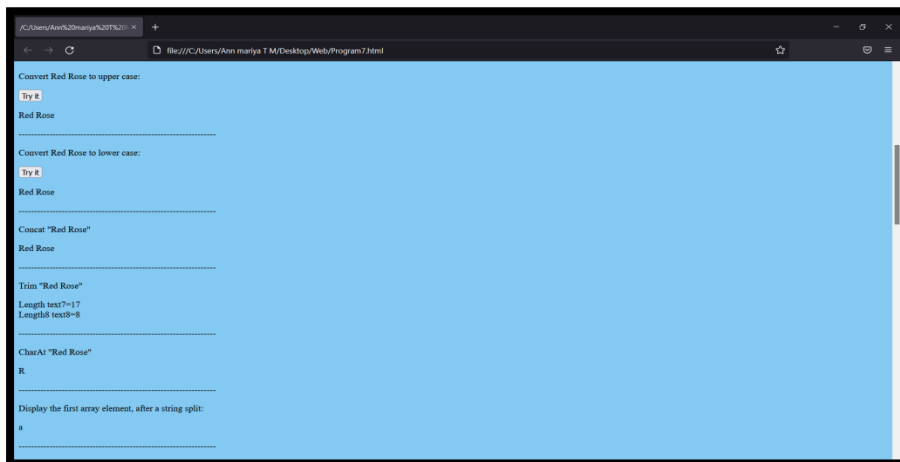
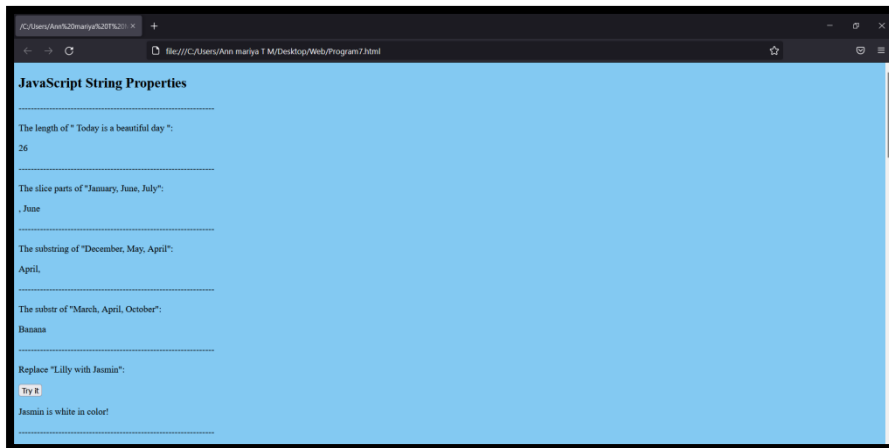
```
<script>
```

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

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

```
</html>
```

## Output





## 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:red;" >

WELCOME TO WORLD OF TECHNOLOGY

</h1>

<button type="button" id="color-button" onclick="changeBg()">Click Here

</button>

<br><br>

<script>

document.writeln( "Click on button to change the background color");

const pageBody = document.querySelector("body");

function changeBg()

{

let color = '#' + (Math.random()*0xFFFFFFFF<<0).toString(16);

pageBody.style.background = color;
```

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

## Output



**Experiment No:9**

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

**Source code**

```
<!DOCTYPE HTML>

<html>

<head><title>Calendar</title>

<style>

table {

border-collapse: collapse;

}

td, th {

border: 1px solid black;

padding: 3px;

text-align: center;

}

th {

font-weight: bold;

background-color: #5ddedc;

}

</style></head>

<body>

<b>CALENDAR</b><br><br>

Enter The year : <input type="number" name="cal" id="cal" /><br><br>

Enter The Month: <input type="number" name="month" id="month" /><br><br>
```

```

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

<script>

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

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

function getDay(date) {

let day = date.getDay();

if (day == 0) day = 7;

return day - 1;

}

function createCalendar(elem, year, month) {

let mon = month - 1;

let d = new Date(year, mon);

let table =

'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</t
h><th>SAT</th><th>SUN</th></tr><tr>';

for (let i = 0; i < getDay(d); i++)

{

table += '<td>*</td>';

}

while (d.getMonth() == mon) {

table += '<td>' + d.getDate() + '</td>';

if (getDay(d) % 7 == 6) {

table += '</tr><tr>';

}

}

```

```

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

}

if (getDay(d) != 0) {

for (let i = getDay(d); i < 7; i++) {

table += '<td>*</td>';

}

}

table += '</tr></table>';

elem.innerHTML = table;

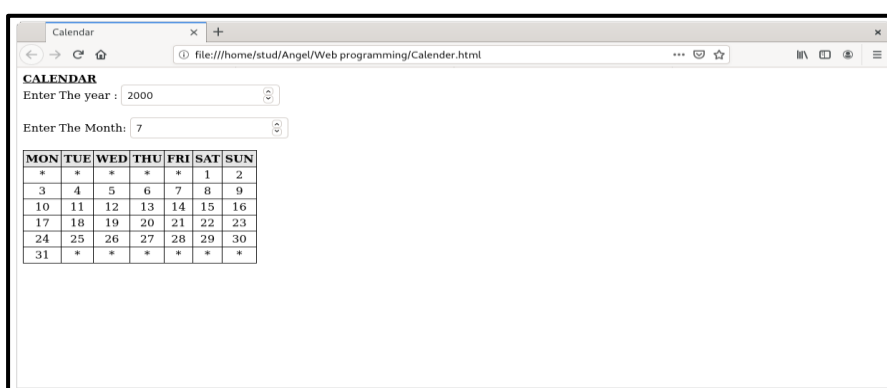
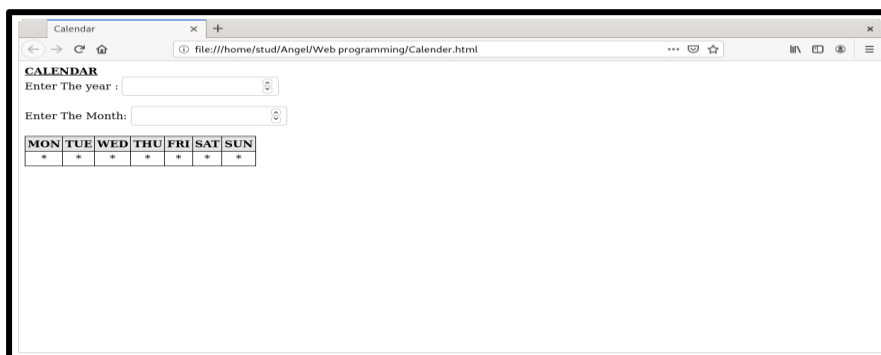
}

createCalendar(calendar, year, month);

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

```

## Output



**Experiment No:10**

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

**Source code**Electricity.html

```
<html>

<head><title>Electricity bill</title></head>

<body>

<form name="bill" action="bill.php" method="post">

<h1>ELECTRICITY BILL<hr></h1>

Consumer Number: <input type="number" name="cno"><br><br>

Customer name: <input type="text" name="uname"><br><br>

Unit: <input type="number" name="unit"><br><br>

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

</form>

</body>

</html>
```

Bill.php

```
<html>

<head><title>Bill</title></head>

<body>

<h1>Electricity Bill</h1><br>

<table border="1">

<tr>
```

<td>

<h3>Name :<?php echo \$\_POST["uname"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Consumer number :<?php echo \$\_POST["cno"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Price/Unit :<?php \$p=4; echo \$p;?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Unit :<?php echo \$\_POST["unit"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Amount :<?php echo \$\_POST["unit"]\*4;?></h3><br>

</td>

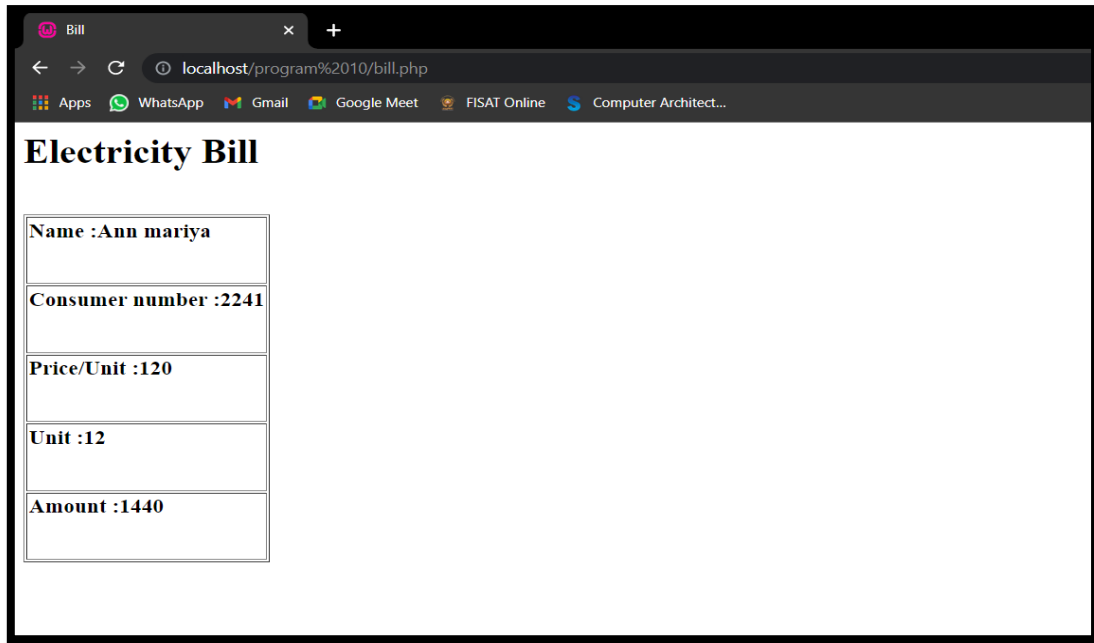
</tr>

```
</table>
```

```
</body>
```

```
</html>
```

## Output





**Experiment No:11**

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

**Source code**

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

## Output

```
localhost/array x Program11 x +
localhost/array
Students Name:
Array ( [Angel] => 34 [Ann] => 35 [Sree] => 23 [Anz] => 11 [Anju] => 9 )
Ascending Order
Key=Anju, Value=9
Key=Anz, Value=11
Key=Sree, Value=23
Key=Angel, Value=34
Key=Ann, Value=35
Descending Order
Key=Ann, Value=35
Key=Angel, Value=34
Key=Sree, Value=23
Key=Anz, Value=11
Key=Anju, 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("Virat Kohli", "M S Dhoni", "Rohit Sharma"); echo "Indian
Cricketers: " .

$Indcricketers[0] . ", " . $Indcricketers[1] . " and" . $Indcricketers[2] . "."; echo
"<h3>INDIAN
CRICKETERS</h3><table border='1'>

<tr>

<th>NO</th>

<th>NAMES</th>

</tr>

<tr>

<td>1</td>

<td>Virat Kohli</td>

</tr>

<tr>

<td>2</td>

<td>M S Dhoni</td>

</tr>
```

```
<tr>
```

```
<td>3</td>
```

```
<td>Rohit Sharma</td>
```

```
</tr>";
```

```
?>
```

```
</body>
```

```
</html>
```

### Output

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

#### INDIAN CRICKETERS

NO	NAMES
1	Virat Kohli
2	M S Dhoni
3	Rohit Sharma

**Experiment No:13**

**Aim:** Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

**Source code**

BOOKINFO.Html

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

ADD.HTML

```
<html><head>

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

<body>

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

<center><b><u>Enter Books Details</u></b><br>

Access Number:<input type="text" name="num"><br>

Title:<input type="text" name="tit"><br>

Author:<input type="text" name="author"><br>

Edition:<input type="text" name="edi"><br>

Publisher:<input type="text" name="pub"><br>

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

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

```
</form>
```

```
</body>
```

```
</html>
```

ADD.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"; }
```

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

```
if($con->query($sql))
```

```
{
```

```
echo "<BR>";
```

```
echo "New row added";
```

```
}
```

```
else
```

```
{
```

```
echo "ERROR:could not execute query";
```

```

}
$con->close();
?>

```

### SEARCH.HTML

```

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

```

### SEARCH.PHP

```

<?php
$title=$_POST['txt'];

$con=new
mysqli("localhost","fisat","fisat","fisatdb");

if($con==false)
{
echo "Failed to connect";
}
else
{

```

```
echo "connected\n";

}

$sql="select * from books where
Title='$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

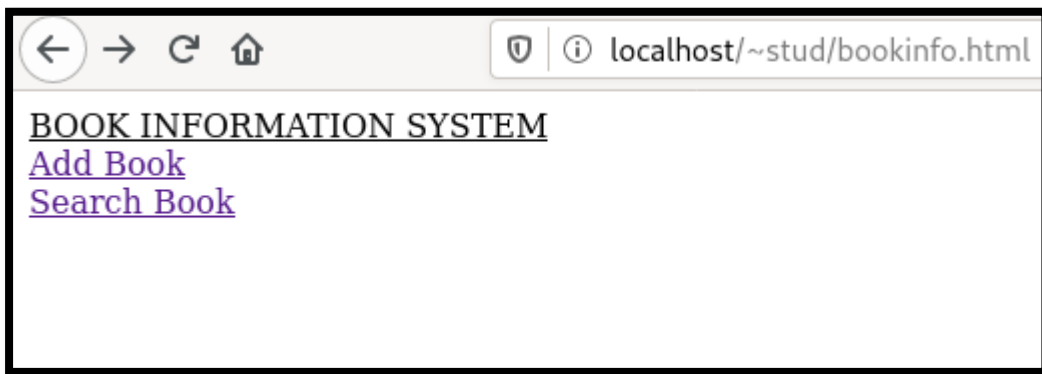
{ echo "\nError:could not connect"; }

$con->close();

?>
```

## Output



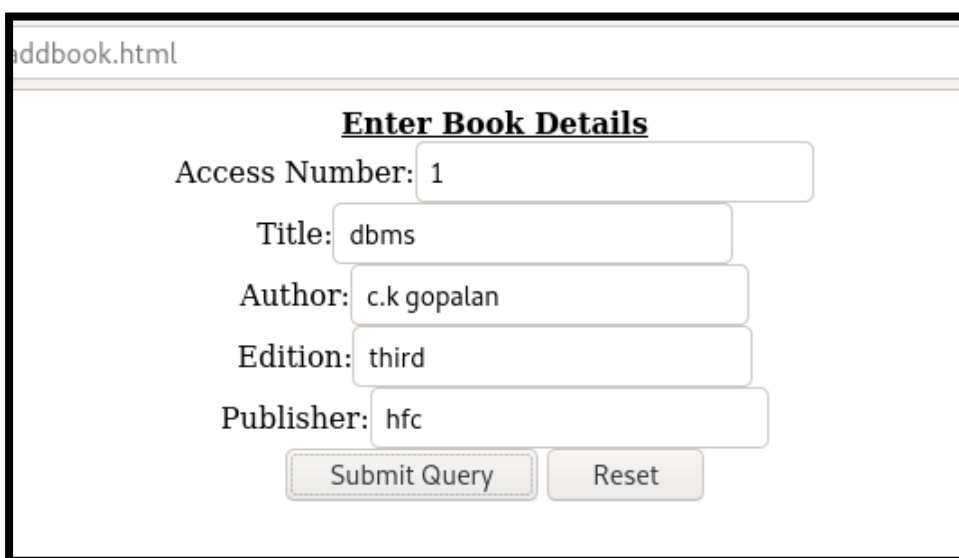


← → ↻ 🏠 | 🛡️ ⓘ localhost/~stud/bookinfo.html

**BOOK INFORMATION SYSTEM**

[Add Book](#)

[Search Book](#)



addbook.html

**Enter Book Details**

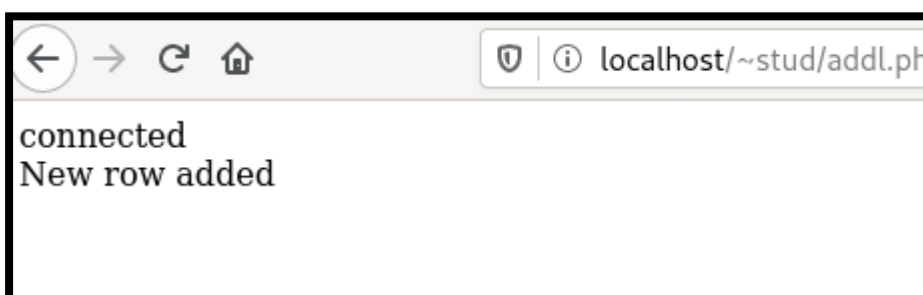
Access Number:

Title:

Author:

Edition:

Publisher:



← → ↻ 🏠 | 🛡️ ⓘ localhost/~stud/addl.php

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 rajeev | fifth | llp |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [fisatdb]>

```

### SEARCH A BOOK

Enter book title:

⬅ ➡ 🔄 🏠

🔒 ℹ localhost/~stud/search

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

**Experiment No:14**

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

**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

```

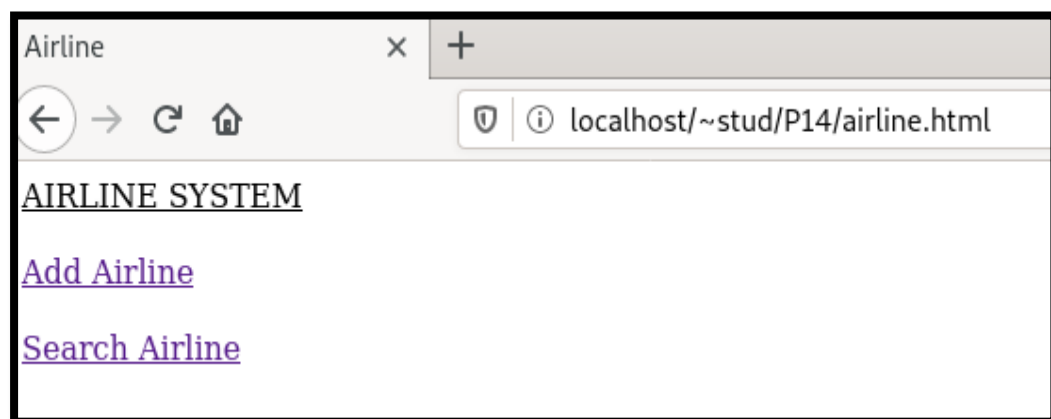
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}

```

```
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



Airline details x +

localhost/~stud/P14/add.html

**Enter Airline Details**

Airline Number:

Name:

Source:

Destination:

Date:

localhost/~stud/P14/addl.php x +

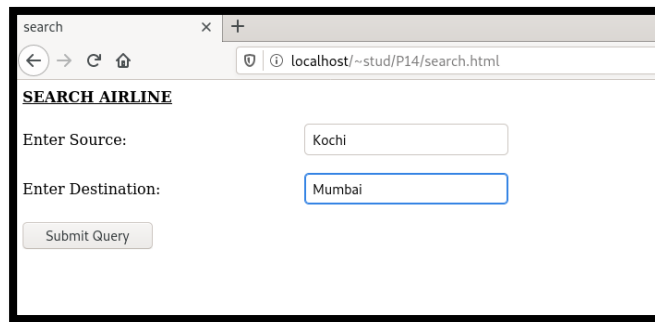
localhost/~stud/P14/addl.php

connected  
New row added

```
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)
```



A screenshot of a web browser window with a single tab titled 'search'. The address bar shows 'localhost/~stud/P14/search.html'. The page content includes a heading 'SEARCH AIRLINE', two input fields labeled 'Enter Source:' and 'Enter Destination:', and a 'Submit Query' button. The 'Enter Source:' field contains the text 'Kochi' and the 'Enter Destination:' field contains the text 'Mumbai'.



A screenshot of a web browser window with a single tab titled 'localhost/~stud/P14/searchl.php'. The address bar shows 'localhost/~stud/P14/searchl.php'. The page content displays the result of a search query: 'connected 12:xyz:Kochi:Mumbai:2022-03-13 2:Air india:Kochi:Mumbai:2022-03-08'.