

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

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

20MCA133 WEB PROGRAMMING LAB

LABORATORY RECORD

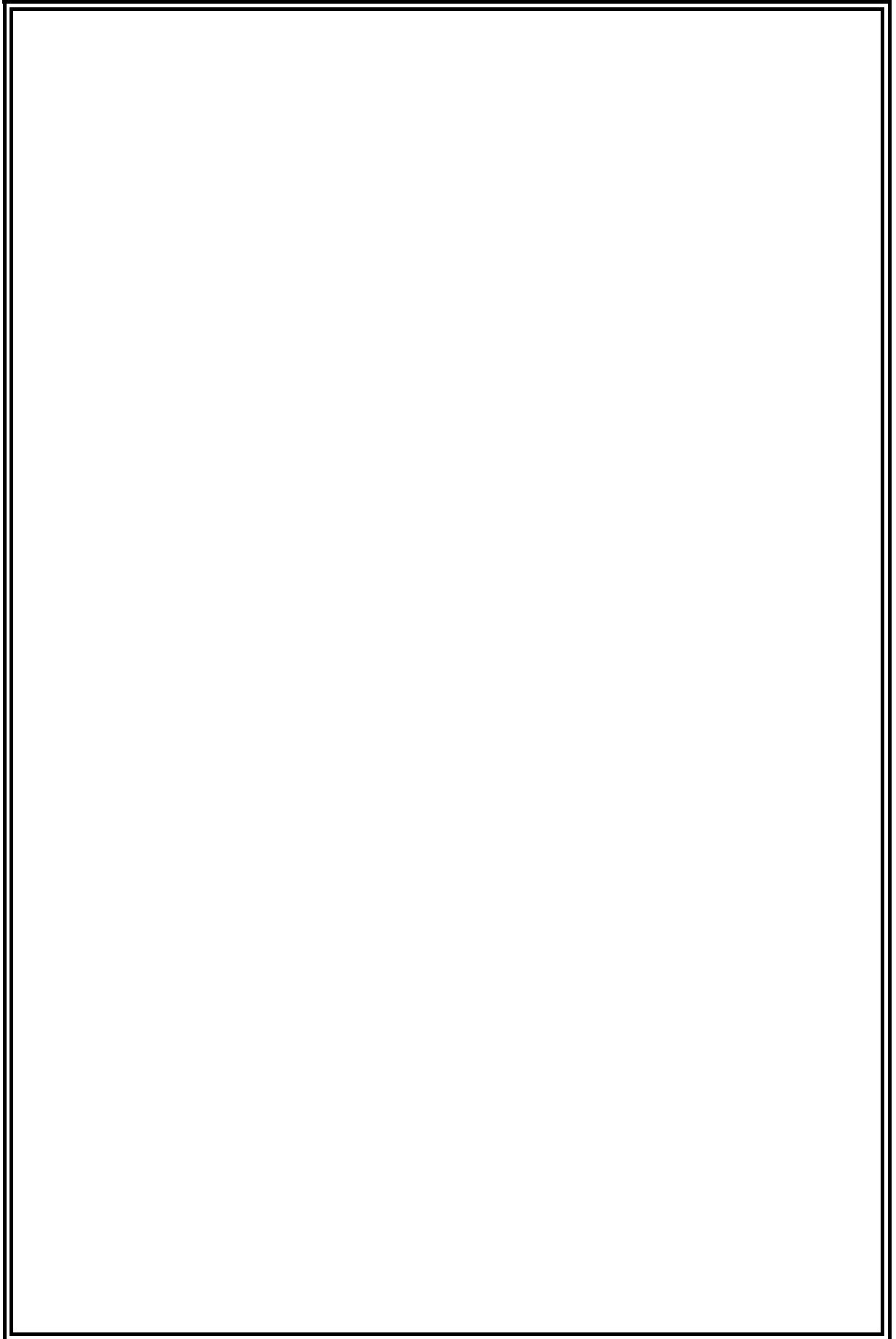
Name: ANAMIKA C P

Branch: MASTER OF COMPUTER APPLICATIONS

Semester:1 Batch: A Roll No:19

Register Number: FIT21MCA-2019

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FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

(FISAT)TM

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 **ANAMIKA C P(FIT21MCA-2019)** 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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Experiment Number:1

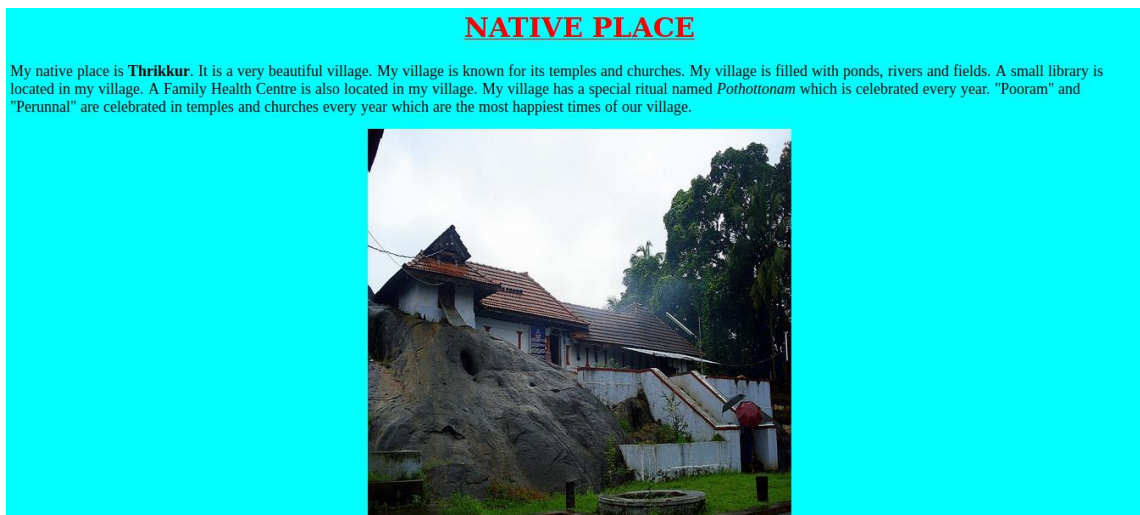
AIM:

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

Program Code

```
<html>
<head>
<title>NATIVE PLACE</title>
</head>
<body bgcolor=cyan marginheight=5 marginwidth=5>
<h1 align=center><u><font color=red>NATIVE PLACE</font></u></h1>
<p><font size=4 color=black face=timesnewroman>My native place is <b>Thrikkur</b>.
It is a very beautiful village. My village is known for its temples and churches. My village
is filled with ponds, rivers and fields. A small library is located in my village. A Family
Health Centre is also located in my village. My village has a special ritual named
<em>Pothottonam</em> which is celebrated every year. "Pooram" and "Perunnal" are
celebrated in temples and churches every year which are the most happiest times of our
village.</font></p>
<center><imgsrc=/home/ccf/anamika/Thrikkur.JPG height=500 width=500></center>
</body>
</html>
```

Output



Experiment Number: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

Program Code

biodata.html

```
<html>
<head>
<title>Biodata</title>
</head>
<body bgcolor=white text=black marginheight=5 marginwidth=5>
<h1 align=center><u>BIODATA</u></h1>
<imgsrc=/home/ccf/anamika/female.jpg align=right height=200 width=200>
<font size=4>
<ul>
<li>Name:Anamika C P</li>
<li>Age:20</li>
<li>Gender:Female</li>
<li>Date Of Birth:05/06/2001</li>
<li>Address:Cheraparambil House P.O Thrikkur, Thrissur, 680306</li>
<li>Phone Number:92XXXXXXXXXX</li>
<li>Email Id:anamikapradeep6@gmail.com</li>
<li>Father's Name:Pradeep C V</li>
<li>Occupation :Gold Work</li>
<li>Mother's Name:Swapna K.S</li>
<li>Occupation :Home Maker</li>
<li><b><a href=/home/ccf/anamika/education.html>Educational
Qualifications</a></b></li>
</ul>
</font>
</body>
```

education.html

```
<html>
<head><title>education</title>
</head>
<body>
<h1 align=center><u>Educational Qualifications</u></h1>
<table border=1px cellspacing=1px cellpadding=6px>
<thead>
<tr>
<th>Name of the Course</th>
<th>Name of the Institution</th>
<th>Percentage Obtained</th>
</tr></thead>
<tbody>
<tr>
<td>SSLC</td>
<td>St Mary's C.G.H.S, Ollur</td>
<td>95</td></tr>
<tr>
<td>HSE</td>
<td>Marthoma Girls HSE, Thrissur</td>
<td>88</td></tr>
<tr>
<td>Graduation</td>
<td>Prajyoti Niketan College, Pudukad</td>
<td>78</td></tr>
</tbody>
<a href=/home/ccf/anamika/biodata.html>Back</a>
</body>
</html>
```


Output

BIODATA

- Name:Anamika C P
- Age:20
- Gender:Female
- Date Of Birth:05/06/2001
- Address:Cheraparambil House P.O Thrikkur, Thrissur, 680306
- Phone Number:92XXXXXXX
- Email Id:anamikapradeep6@gmail.com
- Father's Name:Pradeep C V
- Occupation :Gold Work
- Mother's Name:Swapna K.S
- Occupation :Home Maker
- **Educational Qualifications**



Educational Qualifications

[Back](#)

Name of the Course	Name of the Institution	Percentage Obtained
SSLC	St Mary's C.G.H.S, Ollur	95
HSE	Marthoma Girls HSE, Thrissur	88
Graduation	Prajyoti Niketan College, Pudukad	78

Experiment Number:3

AIM:

Create an application form for MCA course in FISAT

Program Code

application.html[illegible]

[illegible]

[illegible]

Output

**FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY**

Application for admission to Master of Computer Applications-Management Quota

Basic Details

Name

Address

City

State

Country	<input type="text"/>
Pincode	<input type="text"/>
Mobile	<input type="text"/>
Email	<input type="text"/>
Date of Birth	<input type="text" value="dd / mm / yyyy"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
Nationality	<input type="text"/>
Religion	<input type="text" value="Hindu"/>
Community	<input type="text"/>
Father's Details	
Name	<input type="text"/>
Occupation	<input type="text"/>
Employed	<input type="checkbox"/>
Designation	<input type="text"/>
Phone No	<input type="text"/>
Mother's Details	

Name	<input type="text"/>
Occupation	<input type="text"/>
Employed	<input type="checkbox"/>
Designation	<input type="text"/>
Phone No	<input type="text"/>
Annual income	<input type="text"/>
Academic Qualifications	
Entrance Rank	<input type="text"/>
<hr/>	
Entrance Rank	<input type="text"/>
Tenth %	<input type="text"/>
Plus Two %	<input type="text"/>
Graduation Course BSc <input type="radio"/> BCA <input type="radio"/> BCom <input type="radio"/> Others <input type="radio"/>	
Degree Percentage	<input type="text"/>
Semester upto result available	<input type="text"/>
Remarks	<input type="text"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Experiment Number:4

AIM:

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

Program Code

frame.html

```
<html>
<head><title>Frame</title>
</head>
<frameset cols="25,75">
<frame name="first" src="/home/ccf/anamika/frame1.html">
<frame name="second" src="/home/ccf/anamika/frame2.html">
</frameset>
</html>
```

frame1.html

```
<html>
<head><title>frame1</title>
</head>
<body text="red" bgcolor="white">
<h1 align="center">MCA</h1>
<a href=/home/ccf/anamika/about.html target="third">About MCA</a><br>
<a href=https://mca.fisat.ac.in/ target="third">MCA Admission</a><br>
</body>
</html>
```

frame2.html

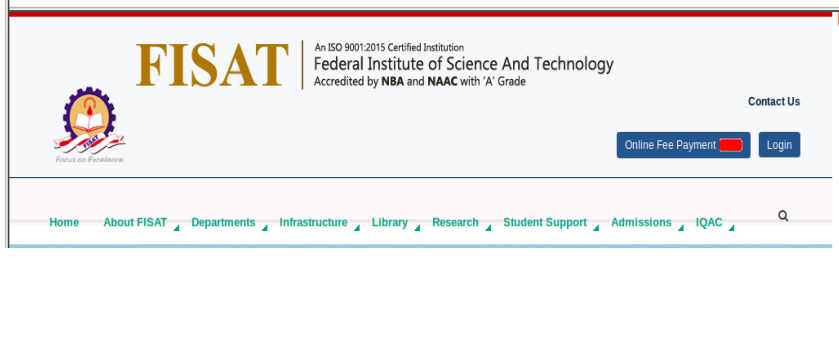


```
<html>
<head><title>frame2</title>
<frameset rows="350,*">
<frame name="third" src="/home/ccf/anamika/about.html">
<frame name="fourth" src="https://www.fisat.ac.in/">
</frameset>
</html>
```

frame3.html

```
<html>
<head>
```

```
<title>frame3</title>
</head>
<body>
<a href=https://www.fisat.ac.in/ target="fourth"></a>
</body>
</html>
```

Output

<p>MCA</p> <p>About MCA MCA Admssion</p>	<p>About</p> <p>The MCA programme was started in 2006. The department is offering two year MCA programme . The annual intake for this programme is 120.. The Department aims to achieve academic excellence by focusing on the key activities like providing quality education to students, enhancing their learning skills and giving them training to acquire the professional skills required for their career with an objective of making them socially committed professionals. The backbone of the department is a team of well qualified, experienced and committed faculty members who contributes to the development of academic expertise and interpersonal skills of the students. Various technical sessions, seminars and personality enhancement programmes are initiated by the department for the overall development of the students. The department is equipped with class rooms having LCD projectors, seminar hall, software and hardware labs, high speed internet cafe and a well resourced reference and central library. The alumni are placed in reputed organizations like TCS, IBM, L&T, InfoTech, Satyam, Syntel, Caritor, InfoVista and banks like Bank of Baroda, Federal Bank etc.</p>
	
<p>MCA</p> <p>About MCA MCA Admission</p>	
	

Experiment Number:5

AIM:

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

Program Code

css.html

```
<html>
<head>
<title>css</title>
<style>
p{
font-family:sans-serif;color:maroon;
}
body{ background-color:yellow;
}
</style>
</head>
<body>
<h1 style="color:blue;">Webpage</h1>
<p>A webpage is a document commonly written in HyperText Markup Language(HTML)
that is accessible through the internet or other network using a browser.</p>
<link rel="stylesheet" href="external.css">
<h2>Types of Webpage</h2>
<h4>Static Webpage<br>Dynamic Webpage</h4>
<body>
<html>
```

external.css

```
h2{ color:green;font-size:20px;}
h4{ font-size:15px;color:black;}
```

Output

Webpage

A webpage is a document commonly written in HyperText Markup Language(HTML) that is accessible through the internet or other network using a browser.

Types of Webpage

Static Webpage

Dynamic Webpage

Experiment Number:6

AIM:

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

Program Code

```
<html>
<head>
<script>
function validateForm() {
var x = document.forms["myForm"]["username"].value;
var y = document.forms["myForm"]["password"].value;
if (x == "") {
alert("Username must be filled out");
return false;
}
if (y == "") {
alert("Password must be filled out");
return false;
}
}
</script>
</head>
<body>
<form name="myForm" action=frame.html onsubmit="return validateForm()"
method="post">
Username: <input type="text" name="username"><br><br>
Password: <input type="text" name="password"><br><br>
<input type="submit" value="Submit"><br>
</form>
</body>
</html>
```

Output

Apps Gmail YouTube Maps

Username:

Password:

This page says
Username must be filled out

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

```
<html>
<body>
<h1>JavaScript Strings</h1>
<h3>String length()</h3>
<p>The length property returns the length of a string:<br><br>
let text = "Anamika Pradeep";<br>
document.getElementById("demo").innerHTML = text.length;<br><br>
The Output is:</p>
<p id="demo"></p>
<h3>String slice()</h3>
<p>The slice() method extract a part of a string and returns the extracted parts in a new string:<br><br>
let str = "Anagha, Athira, Anamika";<br>
document.getElementById("demo1").innerHTML = str.slice(7,13);<br><br>
The Output is:</p>
<p id="demo1"></p>
<h3>String substring()</h3>
<p>The substring() method extract a part of a string and returns the extracted parts in a new string:<br><br>
let str1 = "Anamika, Deepa, Athira";<br>
document.getElementById("demo2").innerHTML = str.substring(7,13);<br><br>
The Output is:</p>
<p id="demo2"></p>
<h3>String substr()</h3>
<p>The substr() method extract a part of a string and returns the extracted parts in a new string:<br><br>
let str2 = "Apple, Banana, Kiwi";<br>
document.getElementById("demo3").innerHTML = str2.substr(7,6);<br><br>
The Output is:</p>
<p id="demo3"></p>
<h3>String replace()</h3>
<p>The Replace Function is used to replace a particular element in a string.<br><br>
let text1 = document.getElementById("demo4").innerHTML;<br>
document.getElementById("demo4").innerHTML =<br>
text1.replace("Microsoft","W3Schools");<br><br>
The Output is:</p>
<button onclick="myFunction()">Click Here</button>
```

```
<p id="demo4">Please visit Microsoft!</p>
<h3>String uppercase()</h3>
<p>It is used to convert string to upper case.<br><br>
let text2 = document.getElementById("demo").innerHTML;<br>
document.getElementById("demo5").innerHTML =<br>
text2.toUpperCase();<br><br>
The Output is:</p>
<button onclick="myFunction1()">Try it</button>
<p id="demo5">Hello World!</p>
<h3>String lowercase()</h3>
<p>It is used to convert string to lower case.<br><br>
let text3 = document.getElementById("demo6").innerHTML;<br>
document.getElementById("demo6").innerHTML =<br>
text3.toLowerCase();<br>
The Output is:<br></p>
<button onclick="myFunction2()">Try it</button>
<p id="demo6">Hello World!</p>
<h3>String concat()</h3>
<p>The concat() method joins two or more strings.<br><br>
let txt1 = "Hello";<br>
let txt2 = "World!";<br>
let txt3 = txt1.concat(" ",txt2);<br>
document.getElementById("demo7").innerHTML = txt3;<br><br>
The Output is:</p>
<p id="demo7"></p>
<h3>String search</h3>
<p>The search() method returns the position of the first occurrence of a specified text in a string:<br><br>
let str4 = "Please locate where 'locate' occurs!";<br>
document.getElementById("demo8").innerHTML = str4.search("locate");<br><br>
The Output is:</p>
<p id="demo8"></p>
<h3>String includes()</h3>
<p>It is used to check whether an element is included in a string.<br><br>
let text5 = "Hello world, welcome to the universe.";<br>
document.getElementById("demo9").innerHTML = text5.includes("world");<br><br>
The Output is:</p>
<p id="demo9"></p>
<h3>trim()</h3>
let string = " Hello World! ";<br>
let string2 = string.trim();<br>
document.getElementById("demo10").innerHTML =
"Length string=" +string.length + "<br>Length2 string2=" +string2.length;<br><br>
The Output is:
<p id="demo10"></p>
<h3>charAt()</h3>
```

```
<p>The charAt() method returns the character at a given position in a string:</p>
var st = "HELLO WORLD";<br>
document.getElementById("demo11").innerHTML = st.charAt(0);<br><br>
The Output is:
<p id="demo11"></p>
<h1>Math Functions</h1>
<h3>Math.round()</h3>
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>
document.getElementById("demo12").innerHTML = Math.round(4.6);<br><br>
The Output is:<br>
<p id="demo12"></p>
<h3>Math.ceil()</h3>
<p>Math.ceil() rounds a number up to its nearest integer</p>
document.getElementById("demo13").innerHTML = Math.ceil(4.4);<br><br>
The Output is:<br>
<p id="demo13"></p>
<h3>Math.floor()</h3>
<p>Math.floor(x) returns the value of x rounded down to its nearest integer</p>
document.getElementById("demo14").innerHTML = Math.floor(4.7);<br><br>
The Output is:<br>
<p id="demo14"></p>
<h3>Math.trunc()</h3>
<p>Math.trunc(x) returns the integer part of x</p>
document.getElementById("demo").innerHTML = Math.trunc(4.7);<br><br>
The Output is:<br>
<p id="demo15"></p>
<h3>Math.sign()</h3>
<p>Math.sign(x) returns if x is negative, null or positive</p>
document.getElementById("demo16").innerHTML = Math.sign(4);<br><br>
The Output is:<br>
<p id="demo16"></p>
<h3>Math.pow()</h3>
<p>Math.pow(x,y) returns the value of x to the power of y</p>
document.getElementById("demo17").innerHTML = Math.pow(8,2);<br><br>
The Output is:<br>
<p id="demo17"></p>
<h3>Math.sqrt()</h3>
<p>Math.sqrt(x) returns the square root of x</p>
document.getElementById("demo18").innerHTML = Math.sqrt(64);<br><br>
The Output is:<br>
<p id="demo18"></p>
<h3>Math.abs()</h3>
<p>Math.abs(x) returns the absolute (positive) value of x</p>
document.getElementById("demo19").innerHTML = Math.abs(-4.4);<br><br>
The Output is:<br>
<p id="demo19"></p>
```

```
<h3>Math.sin()</h3>
<p>Math.sin(x) returns the sin of x (given in radians)</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
document.getElementById("demo20").innerHTML = "The sine value of 90 degrees is " +
Math.sin(90 * Math.PI / 180);<br><br>
The Output is:<br>
<p id="demo20"></p>
<h3>Math.cos()</h3>
<p>Math.cos(x) returns the cosine of x (given in radians)</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
document.getElementById("demo21").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);<br><br>
The Output is:<br>
<p id="demo21"></p>
<h3>Math.min()</h3>
<p>Math.min() returns the lowest value in a list of arguments</p>
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);<br><br>
The Output is:<br>
<p id="demo22"></p>
<h3>Math.max()</h3>
<p>Math.max() returns the highest value in a list of arguments</p>
document.getElementById("demo23").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);<br><br>
The Output is:<br>
<p id="demo23"></p>
<h3>Math.random()</h3>
<p>Math.random() returns a random number between 0 and 1</p>
document.getElementById("demo24").innerHTML = Math.random();<br><br>
The Output is:<br>
<p id="demo24"></p>
<h3>Math.log()</h3>
<p>Math.log() returns the natural logarithm of a number</p>
document.getElementById("demo25").innerHTML = Math.log(1);<br><br>
The Output is:<br>
<p id="demo25"></p>

<script>
let text = "Anamika Pradeep";
document.getElementById("demo").innerHTML = text.length;
let str = "Anagha, Athira, Anamika";
document.getElementById("demo1").innerHTML = str.slice(7,14);
let str1 = "Anamika, Deepa, Athira";
document.getElementById("demo2").innerHTML = str1.substring(8,14);
let str2 = "Apple, Banana, Kiwi";
document.getElementById("demo3").innerHTML = str2.substr(7,6);
```



```
function myFunction() {
  let text1 = document.getElementById("demo4").innerHTML;
  document.getElementById("demo4").innerHTML =
    text1.replace("Microsoft","W3Schools");
}
function myFunction1() {
  let text2 = document.getElementById("demo5").innerHTML;
  document.getElementById("demo5").innerHTML =
    text2.toUpperCase();
}
function myFunction2() {
  let text3 = document.getElementById("demo6").innerHTML;
  document.getElementById("demo6").innerHTML =
    text3.toLowerCase();
}
let txt1 = "Hello";
let txt2 = "World!";
let txt3 = txt1.concat(" ",txt2);
document.getElementById("demo7").innerHTML = txt3;
let str4 = "Please locate where 'locate' occurs!";
document.getElementById("demo8").innerHTML = str4.search("locate");
let text5 = "Hello world, welcome to the universe.";
document.getElementById("demo9").innerHTML = text5.includes("world");
let string = " Hello World! ";
let string2 = string.trim();
document.getElementById("demo10").innerHTML =
  "Length string=" +string.length + "<br>Length2 string2=" +string2.length;
var st = "HELLO WORLD";
document.getElementById("demo11").innerHTML = st.charAt(0);
document.getElementById("demo12").innerHTML = Math.round(4.6);
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
document.getElementById("demo14").innerHTML = Math.floor(4.7);
document.getElementById("demo15").innerHTML = Math.trunc(4.7);
document.getElementById("demo16").innerHTML = Math.sign(4);
document.getElementById("demo17").innerHTML = Math.pow(8,2);
document.getElementById("demo18").innerHTML = Math.sqrt(64);
document.getElementById("demo19").innerHTML = Math.abs(-4.4);
document.getElementById("demo20").innerHTML =
  "The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
document.getElementById("demo21").innerHTML =
  "The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
document.getElementById("demo22").innerHTML =
  Math.min(0, 150, 30, 20, -8, -200);
document.getElementById("demo23").innerHTML =
  Math.max(0, 150, 30, 20, -8, -200);
document.getElementById("demo24").innerHTML = Math.random();
```

```
document.getElementById("demo25").innerHTML = Math.log(1);  
</script>  
</body>  
</html>
```

Output

JavaScript Strings

String length()

The length property returns the length of a string:

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

The Output is:

15

String slice()

The slice() method extract a part of a string and returns the extracted parts in a new string:

```
let str = "Anagha, Athira, Anamika";  
document.getElementById("demo1").innerHTML = str.slice(7,13);
```

The Output is:

Athira

String substring()

The substring() method extract a part of a string and returns the extracted parts in a new string:

```
let str1 = "Anamika, Deepa, Athira";  
document.getElementById("demo2").innerHTML = str.substring(7,13);
```

The Output is:

Deepa

String substr()

The substr() method extract a part of a string and returns the extracted parts in a new string:

```
let str2 = "Apple, Banana, Kiwi";  
document.getElementById("demo3").innerHTML = str2.substr(7,6);
```

The Output is:

Banana

String replace()

The Replace Function is used to replace a particular element in a string.

```
let text1 = document.getElementById("demo4").innerHTML;  
document.getElementById("demo4").innerHTML =  
text1.replace("Microsoft","W3Schools");
```

The Output is:

[Click Here](#)

Please visit W3Schools!

String uppercase()

It is used to convert string to upper case.

```
let text2 = document.getElementById("demo").innerHTML;  
document.getElementById("demo5").innerHTML =  
text2.toUpperCase();
```

The Output is:

[Try it](#)

Hello World!

String lowercase()

It is used to convert string to lower case.

```
let text3 = document.getElementById("demo6").innerHTML;  
document.getElementById("demo6").innerHTML =  
text3.toLowerCase();
```

The Output is:

Try it

hello world!

String concat()

The concat() method joins two or more strings.

```
let txt1 = "Hello";  
let txt2 = "World!";  
let txt3 = txt1.concat(" ",txt2);  
document.getElementById("demo7").innerHTML = txt3;
```

The Output is:

Hello World!

String search

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

```
let str4 = "Please locate where 'locate' occurs!";  
document.getElementById("demo8").innerHTML = str4.search("locate");
```

The Output is:

7

String includes()

It is used to check whether an element is included in a string.

```
let text5 = "Hello world, welcome to the universe.";
document.getElementById("demo9").innerHTML = text5.includes("world");
```

The Output is:

true

trim()

```
let string = " Hello World! ";
let string2 = string.trim();
document.getElementById("demo10").innerHTML = "Length string=" +string.length + "
Length2 string2=" +string2.length;
```

The Output is:

Length string=14
Length2 string2=12

charAt()

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

```
var st = "HELLO WORLD";
document.getElementById("demo11").innerHTML = st.charAt(0);
```

The Output is:

H

Math Functions

Math.round()

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

```
document.getElementById("demo12").innerHTML = Math.round(4.6);
```

The Output is:

5

Math.ceil()

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

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

The Output is:

5

Math.floor()

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

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

The Output is:

4

Math.trunc()

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

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

The Output is:

4

Math.sign()

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

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

The Output is:

1

Math.pow()

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

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

The Output is:

64

Math.sqrt()

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

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

The Output is:

8

Math.abs()

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

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

The Output is:

4.4

Math.sin()

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

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

```
document.getElementById("demo20").innerHTML = "The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
```

The Output is:

The sine value of 90 degrees is 1

Math.cos()

Math.cos(x) returns the cosine of x (given in radians)

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

```
document.getElementById("demo21").innerHTML = "The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
```

The Output is:

The cosine value of 0 degrees is 1

Math.min()

Math.min() returns the lowest value in a list of arguments

```
document.getElementById("demo22").innerHTML = Math.min(0, 150, 30, 20, -8, -200);
```

The Output is:

-200

Math.max()

Math.max() returns the highest value in a list of arguments

```
document.getElementById("demo23").innerHTML = Math.max(0, 150, 30, 20, -8, -200);
```

The Output is:

150

Math.random()

Math.random() returns a random number between 0 and 1

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

The Output is:

0.02691612765205198

Math.log()

Math.log() returns the natural logarithm of a number

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

The Output is:

0

Experiment Number:8

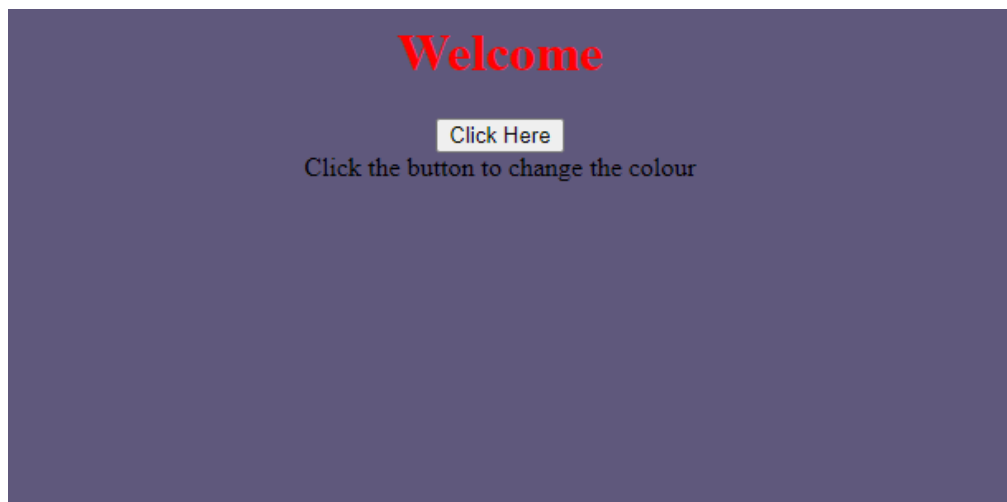
AIM:

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

Program Code

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

Output



Experiment Number:9

AIM:

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

Program Code

```
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
}
th {
font-weight: bold;
background-color: #E6E6E6;
color:red;
}
</style>
</head>
<body>
<b><u>CALENDAR</u></b><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</t
h><th>FRI</th><th>SAT</th><th>SUN</th></tr><tr>';
4
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 :

Enter The Month:

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>PHP - Calculate Electricity Bill</title></head>
<?php $result_str = $result = ""; if (isset($_POST['unit-submit'])) { $units =
$_POST['units'];
if (!empty($units)) { $result = calculate_bill($units); $result_str = 'Total amount of ' .
$units . ' - ' . $result; } }
function calculate_bill($units) { $unit_cost_first = 3.50; $unit_cost_second = 4.00;
$unit_cost_third = 5.20; $unit_cost_fourth = 6.50;
if($units <= 50) { $bill = $units * $unit_cost_first; } else if($units > 50 && $units <=
100) { $temp = 50 * $unit_cost_first; $remaining_units = $units - 50; $bill =
$temp + ($remaining_units * $unit_cost_second); } else if($units > 100 && $units <=
200) { $temp = (50 * 3.5) + (100 * $unit_cost_second); $remaining_units = $units -
150; $bill = $temp + ($remaining_units * $unit_cost_third); } else { $temp = (50 *
3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third); $remaining_units = $units -
250;
$bill = $temp + ($remaining_units * $unit_cost_fourth); } return
number_format((float)$bill, 2, '.', ''); }
?>
<body><div id="page-wrap"><h1>Php - Calculate Electricity Bill</h1>
<form action="" method="post" id="quiz-form"><input type="number" name="units"
id="units" placeholder="Enter number. of Units" /><input type="submit"
name="unit-submit" id="unit-submit" value="Submit" /></form>
<div><?php echo '<br />' . $result_str; ?></div></div></body></html>
```

Output

Electricity Board

Consumer Number:	<input type="text" value="123"/>
Customer name :	<input type="text" value="Anagha"/>
Unit :	<input type="text" value="25"/>
<input type="button" value="Submit"/>	

Electricity Bill

Name :Anagha

Consumer number :123

Price/Unit :4

Unit :25

Amount :100

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

```
<!DOCTYPE html><html><body>
<?php $students=array("Athira","Anagha","Deepa");
print_r($students); ?><?php $students=array("Athira","Anagha","Deepa");
$length = count($students); echo "<br>"; echo "sorting using sort"; echo "<br>";
asort($students); print_r($students); ?><?php
$students=array("Athira","Anagha","Deepa");
echo "<br>"; echo "sorting using sort"; echo "<br>"; arsort($students); print_r($students);
?></body></html>
```

Output

```
Array ( [0] => Athira [1] => Anagha [2] => Deepa )
sorting using sort
Array ( [1] => Anagha [0] => Athira [2] => Deepa )
sorting using sort
Array ( [2] => Deepa [0] => Athira [1] => Anagha )
```

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("M S Dhoni", "Virat Kohli", "Sachin Tendulkar"); 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>Sachin Tendulkar</td>
</tr>";
?>
</body>
</html>
```

Output

Indian Cricketers: M S Dhoni, Virat Kohli and Sachin Tendulkar.

INDIAN CRICKETERS

NO	NAMES
1	M S Dhoni
2	Virat Kohli
3	Sachin Tendulkar

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

```
<html>
<head>
<title>book</title>
</head>
<body text="red" align="center"><u><b>BOOK INFORMATION
SYSTEM</b></u><br>
<a href="add_book.html">Add Book</a><br>
<a href="search.html">Search Book</a><br>
</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"; }
$sql="INSERT INTO book19
VALUES($num,'$tit','$author',$edi,$pub)";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
}
```



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

add_book.html

```
<html>
<head>
<title>add book</title></head>
<body>
<form name="frm1" action="http://localhost/~stud/addl.php" method="POST">
<center><b><u>Enter Book Details</u></b><br><br>
Access Number:<input type="text" name="num"><br><br>
Title:<input type="text" name="tit"><br><br>
Author:<input type="text" name="author"><br><br>
Edition:<input type="text" name="edi"><br><br>
Publisher:<input type="text" name="pub"><br><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

search.html

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

search1.php

```
<?php
$title=$_POST['txt'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from book19 where
Title='$title'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo
"\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".$row[4]."\n";}
$result->close();
}else
{ echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

Output

BOOK INFORMATION SYSTEM

[Add Book](#)
[Search Book](#)

Enter Book Details

Access Number:

Title:

Author:

Edition:

Publisher:

connected

New row added

SEARCH A BOOK

Enter book title:

connected 1257:Web Programming:Devika S:5:Maria Publishers

```
MariaDB [fisatdb]> select * from book19;
```

accno	title	author	edition	publisher
123	ABC	Anagha	1	QWERTY
145	Java	Athira	2	
143	Python	Anu	3	SK Publications
1257	Web Programming	Devika S	5	Maria Publishers
1257	Web Programming	Devika S	5	Maria Publishers

```
5 rows in set (0.019 sec)
```

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

airlineinfo.html

```
<html>
<head>
<title>book</title>
</head>
<body text="red" align="center"><u><b>FLIGHT INFORMATION
SYSTEM</b></u><br><br>
<a href="airline_details.html">Airline Details</a><br>
<a href="flight_details.html">Flight Details</a><br>
<a href="add_details.html">Add Details</a><br>
</body>
</html>
```

airline_details.html

```
<html>
<head>
<title>search1</title>
</head>
<body>
<form name="frm2" action="http://localhost/~stud/search1.php" method="POST">
<center>
<b><u>SEARCH DETAILS OF A PLANE</u></b><br><br>
Enter Boarding Point:<input type="text" name="src"><br><br>
Enter Destination:<input type="text" name="dest"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

search1.php

```
<?php
$src=$_POST['src'];
$dest=$_POST['dest'];
```

```
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline128 where Source='$src' and Destination='$dest'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo
"\n".$row[0].":".$row[1].":".$row[2].":".$row[3]."\n";}
$result->close();
}else
{ echo "\nCould not found the airline"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

flight_details.html

```
<html>
<head>
<title>search2</title>
</head>
<body>
<form name="frm3" action="http://localhost/~stud/search2.php" method="POST">
<center>
<b><u>SEARCH DETAILS OF FLIGHT</u></b><br><br>
Enter Airline Name:<input type="text" name="name"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

search2.php

```
<?php
$name=$_POST['name'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline128 where Airline='$name'";
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]."\n";}
$result->close();
}else
{ echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>
```

add_details.html

```
<html>
<head>
<title>add book</title></head>
<body>
<form name="frm1" action="http://localhost/~stud/add.php" method="POST">
<center><b><u>Enter Flight Details</u></b><br><br>
Airline:<input type="text" name="airname"><br><br>
Source:<input type="text" name="src"><br><br>
Destination:<input type="text" name="dest"><br><br>
Date:<input type="text" name="date"><br><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
```

```
</body>
</html>

add.php
<?php
$airname=$_POST['airname'];
$src=$_POST['src'];
$dest=$_POST['dest'];
$date=$_POST['date'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo "Failed to connect"; }
else
{ echo "connected"; }
$sql="INSERT INTO airline128
VALUES('$airname','$src','$dest','$date')";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```


Output

FLIGHT INFORMATION SYSTEM

[Airline Details](#)

[Flight Details](#)

[Add Details](#)

SEARCH DETAILS OF A PLANE

Enter Boarding Point:

Enter Destination:

connected Air India:Mumbai:Delhi:03/03/2022

SEARCH DETAILS OF FLIGHT

Enter Airline Name:

connected Airways:Chennai:America:12/10/2020

Enter Flight Details

Airline:

Source:

Destination:

Date:

connected

New row added