

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

20MCA133 WEB PROGRAMMING LAB

Name: AMALRAJ JOSEPH – FIT21MCA-2016

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1

Batch: A

Roll No: 16

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

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FOCUS ON EXCELLENCE

CERTIFICATE

*This is to certify that this is a Bonafide record of the Practical work done by **AMALRAJ JOSEPH(FIT21MCA-2016)** 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

Sl No	Date of Experiment	Title of the Experiment	Page No:	Signature of Staff –In – Charge
1	01/11/2021	Model a simple HTML file related to your native place to demonstrate the useage of different tags		
2	01/11/2021	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.		
3	08/11/2021	Create an application form for MCA course in FISAT.		
4	22/11/2021	Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.		
5	22/11/2021	Analyze CSS by applying the different styles using inline, external & internal style sheets in a HTML file		
6	13/12/2021	Create a HTML registration form and to validate the form using JavaScript code		
7	03/01/2022	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 Functions-round,ceil,floor,trunc,sign,pow,sqrt,abs,sin,cos,min,max,random,log)		
8	03/01/2022	Create a HTML page to change the background color for every click of a button using JavaScript Event Handling		
9	03/01/2022	Generate the calendar using JavaScript code by getting the year and month from the user.		
10	10/01/2022	Compose Electricity bill from user input based on a given tariff using PHP.		

Sl No	Date of Experiment	Title of the Experiment	Page No:	Signature of Staff –In – Charge
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.		
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.		
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.		
14	17/01/2022	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.		

Page No 5

[illegible]

Demographics

As of 2011 Census, Bandadka had a population of

*<i>7,824</i> with *<i>3,893</i> males and *<i>3,931</i> females. Bandadka village has an area of***

23.3 km² (9.0 sq mi) with 1,849 families residing in it. The average female sex

ratio was *<i>1010</i>* lower than the state average of *<i>1084</i>*. *<i>10.1%</i>* of the population in

the village was under *<i>6</i>* years of age. Bandadka had an average literacy of *<i>87.36%</i>* lower

than the state average of *<i>94%</i>*; male literacy was *<i>91%</i>* and female literacy was *<i>83.66%</i>*.

Transportation

Bandadka is Situated between Poinachi - Aletty-Sullia

road. Mysore and Bangalore can easily get by these road. Private and ksrct Buses provide routes to

Kasaragod, Kanhangad, Panathur, Mangalore and Kannur. The Nearest Railway station is Kasaragod

and Kanhangad on Mangalore-Palakkad line. There are Airports at Mangalore International Airport in

North and Kannur International Airport in South.

Important Places

Bandadka Fort [G H S S Bandadka](http://www.digitalkeralam.com/widget/?widgetid=967) **Sree Subhramanya Temple** **P H C Bandadka**

Photo Gallery

OUTPUT

Bandadka

Bandadka is a small town in [Kasaragod District](#) in the state of [Kerala](#), India. It is also called as Kottakal because of Bandadka Fort. It comes under [Bandadka Gramapanchayat](#). It is located 30 km (24 mi) towards east from District headquarters Kasaragod and 569 km (353 mi) away from State capital Thiruvananthapuram. Bandadka Pin code is 671541 and postal head office is Chengala.

Demographics

As of 2011 Census, Bandadka had a population of 7,624 with 3,693 males and 3,931 females. Bandadka village has an area of 23.3 km² (9.0 sq mi) with 2,649 families residing in it. The average female sex ratio was 1010 lower than the state average of 1084. 10.1% of the population in the village was under 6 years of age. Bandadka had an average literacy of 87.36% lower than the state average of 94%; male literacy was 91% and female literacy was 83.86%.


Transportation

Bandadka is Situated between Poinachi - Aletty- Sullia road. Mysore and Bangalore can easily get by these road. Private and karte Buses provide routes to Kasaragod, Kanhangad, Panathur, Mangalore and Kannur. The Nearest Railway station is Kasaragod and Kanhangad on Mangalore-Palakkad line. There are Airports at Mangalore International Airport in North and Kannur International Airport in South.


Important Places

- Bandadka Fort
- [G H S S Bandadka](#)
- Sree Subbramanya Temple
- P H C Bandadka


Photo Gallery




Bandadka Fort



Bandadka Town (file image)



G H S S Bandadka



Sree Subbramanya Temple

Reference

Bandadka in Wikipedia, [Click here](#)

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

[illegible]

15-11-2000

| <tr align="left"> | |
 Height | 170 c.m || <tr align="left"> | |
 weight | 65 c.m || <tr align="left"> | |
 Nationality | Indian |

Educational Qualifications

SSLC	G.H.S. Kuttikkol	State Board, Kerala	2016	95
------	------------------	---------------------	------	----

Experience

Waiting for a beginning

Languages

- Malayalam
- English

Skills

- Patience
- Motivation
- Flexibility
- Active Listening

Qualities

- Positive Attitude
- Rational Thinking

Contact Informations

amalrajjoseph85@gmail.com

9061357162

</body>

OUTPUT

Amalraj Joseph

Normal man with abnormal skills



Personal Informations

Date of Birth : 15-11-2000

Height : 170 c.m

weight : 65 c.m

Nationality : Indian

Educational Qualifications

Qualification	School/College	Board University	Year of Passing	percentage of mark
B.Sc. in Physics	St.Pius X College, Rajapuram	Kannur University	2021	82.95
Plus Two	G.V.H.S.S. Iriyanni	DHSE Kerala	2018	86.667
SSLC	G.H.S. Kuttikkol	State Board, Kerala	2016	95

Experience

Waiting for a beginning

Languages

- Malayalam
- English

Skills

- Patience
- Motivation
- Flexibility
- Active Listening

Qualities

- Positive Attitude
- Rational Thinking

Contact Informations

- amalrajjoseph85@gmail.com
- 9061357162

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

Application form.html

Page No 15

For any

queries please contact 9446437774 (HoD MCA)

| <tr align="left"> | |
 Name |[illegible]| <tr align="left"> | |
 Permenant Address |[illegible][illegible][illegible][illegible]| <tr align="left"> | |
 Mobile |[illegible]| <tr align="left"> | |
 Alternative Contact Number |


```

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="For landline add STD
code"></td>

</tr>

<tr align="left">

<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Address for Communication</th>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="address line1"></td>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="address line2"></td>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="address line3"></td>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="address line4"></td>

</tr>

<tr align="left">

<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Email</th>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" value="Email id for
communication"></td>

</tr>

<tr align="left">

<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Date of Birth</th>

<td>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="date"></td>

</tr>

<tr align="left">

<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Gender</th>

```

<input type="radio"/>	Male
<input type="radio"/>	Female

Nationality	<input type="text" value="Indian"/>
Religion	<select><option>Christian</option><option>Hindu</option><option>Muslim</option><option>Other</option></select>
Category	<select><option>GENERAL</option><option>OBC</option><option>SC</option><option>ST</option><option>OTHER</option></select>

Father's Details	<input type="text" value="Name"/>
------------------	-----------------------------------

<input type="checkbox"/>	<input type="text" value="Designation"/>
<input type="checkbox"/>	<input type="text" value="Phone No"/>

Mother's Details
<input type="text" value="Name"/>
<input type="checkbox"/>
<input type="text" value="Designation"/>
<input type="text" value="Phone No"/>

Whether father/Mother/Grand parent is member of FBOAES
<input type="checkbox"/>
<input type="text" value="Membership No"/>

Academic Details

[illegible]

```
</table>
```

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

```
<input type="reset" value="Reset"></p>
```

```
</body>
```

```
</html>
```

OUTPUT

An ISO 9001:2015 Certified Institution

Federal Institute of Science And Technology (FISAT)[®]

Accredited by NAAC with 'A' Grade

Application for admission to Master of Computer Applications -Management Quota

Basic details

For any queries please contact 9446437774 (HoD MCA)

Name	<input type="text"/>			
Permanent Address	<input type="text" value="address line1"/>	<input type="text" value="address line2"/>	<input type="text" value="address line3"/>	<input type="text" value="address line4"/>
Mobile	<input type="text"/>			
Alternative Contact Number	<input type="text" value="For landline add STD code"/>			
Address for Communication	<input type="text" value="address line1"/>	<input type="text" value="address line2"/>	<input type="text" value="address line3"/>	<input type="text" value="address line4"/>
Email	<input type="text" value="Email id for communication"/>			
Date of Birth	<input type="text" value="dd/mm/yyyy"/> <input type="button" value=""/>			
Gender	<input type="radio"/> Male		<input type="radio"/> Female	
Nationality	<input type="text" value="Indian"/>			
Religion	<input type="text" value="Christian"/>			
Category	<input type="text" value="GENERAL"/>			
Father's Details	<input type="text" value="Name"/>	<input type="checkbox"/> Employed	<input type="text" value="Designation"/>	<input type="text" value="Phone No"/>
Mother's Details	<input type="text" value="Name"/>	<input type="checkbox"/> Employed	<input type="text" value="Designation"/>	<input type="text" value="Phone No"/>
Whether father/Mother/Grand parent is member of FBOAES	<input type="checkbox"/> Yes		<input type="text" value="Membership No"/>	

Academic Details

Entrance Rank(If available)	<input type="text"/>
10th %	<input type="text"/>
Plus two %	<input type="text"/>
Degree %	<input type="text"/>
Remarks	<input type="text"/>

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

```
<html>

<head>

<title>Malayalam News Portal</title>

</head>

<frameset cols="20%,80%">

<frame name="menu" src="menu.html">

<frame name="main" src="home.html">

<noframes>

<body>Your Browser doesn't support frames</body>

</noframes>

</frameset>

</html>
```

home.html

```
<html>

<head>

<title>Home Page</title>
```

```
</head>

<body>

<h1 align="center">Welcome to Malayalam News Portal</h1>

<br>

<font color="red">

<h2>Click on a link to read news!!!!</h2>

</font>

<br>

<br>

<br>

<p align="center"><i>“The newspaper is a greater treasure to the people than uncounted millions
of
gold.”
<br>
Henry Ward Beecher</p>

</body>

</html>
```

menu.html

```
<html>

<head>

<title>Menu</title>

</head>
```



```
<body link="blue" a link="red" vlink="Green">

<h3><font color="light blue">Malayalam News Portal</font></h3>

<ul>

<li><a href="home.html" target="main">Home</a></li>

<li><a href="https://www.manoramaonline.com/" target="main">Manorama News</a></li>

<li><a href="https://www.mathrubhumi.com/" target="main">Mathrubhumi</a></li>

<li><a href="https://keralakaumudi.com/news/" target="main">Keralakaumudi</a></li>

<li><a href="https://www.deepika.com/" target="main">Deepika</a></li>

<li><a href="https://www.mangalam.com/" target="main">Mangalam</a></li>

<li><a href="https://www.deshabhimani.com/" target="main">Deshabhimani</a></li>

<li><a href="https://veekshanam.com/" target="main">Veekshanam</a></li>

<li><a href="https://www.janmabhumi.in/" target="main">Janmabhumi</a></li>

<li><a href="https://www.chandrikadaily.com/category/news"
target="main">Chandrika</a></li>

<li><a href="https://www.madhyamam.com/" target="main">Madhyamam</a></li>

<li><a href="https://www.asianetnews.com/" target="main">Asianet News</a></li>

<li><a href="https://www.kairalinewsonline.com/" target="main">Kairali News</a></li>

<li><a href="https://malayalam.news18.com/live-tv/" target="main">News 18</a></li>

<li><a href="https://malayalam.indiatoday.in/" target="main">India Today</a></li>

<li><a href="https://malayalam.oneindia.com/" target="main">One India Malayalam</a></li>

<li><a href="https://www.malayalamnewsdaily.com/" target="main">Malayalam News
Daily</a></li>
```

```
<li><a href="https://malayalam.samayam.com/" target="main">Samayam</a></li>

<li><a href="https://malayalam.indianexpress.com/" target="main">Indian Express
Malayalam</a></li>

<li><a href="https://www.thejasnews.com/" target="main">Thejas</a></li>

<li><a href="https://zeenews.india.com/malayalam" target="main">Zee News
Malayalam</a></li>

<li><a href="https://www.mediaoneonline.com/" target="main">Media One</a></li>

<li><a href="https://www.doolnews.com/" target="main">Dool News</a></li>

<li><a href="https://janamtv.com/" target="main">Janam</a></li>

<li><a href="https://www.malayalivartham.com/" target="main">Malayali Vartha</a></li>

<li><a href="https://malayalam.goodreturns.in/" target="main">Good Returns</a></li>

<li><a href="https://www.etvbharat.com/malayalam/kerala" target="main">etv</a></li>

</ul>

</body>

</html>
```

OUTPUTS

frames.html

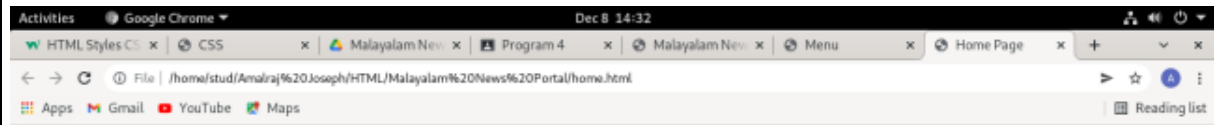


menu.html

Malayalam News Portal

- [Home](#)
- [Manorama News](#)
- [Mathrubhumi](#)
- [Keralakaumudi](#)
- [Deepika](#)
- [Mangalam](#)
- [Deshabhimani](#)
- [Veekshanam](#)
- [Janmabhumi](#)
- [Chandrika](#)
- [Madhyamam](#)
- [Asianet News](#)
- [Kairali News](#)
- [News 18](#)
- [India Today](#)
- [One India Malayalam](#)
- [Malayalam News Daily](#)
- [Samayam](#)
- [Indian Express Malayalam](#)
- [Thejas](#)
- [Zee News Malayalam](#)
- [Media One](#)
- [Dool News](#)
- [Janam](#)
- [Malayali Vartha](#)
- [Good Returns](#)
- [etv](#)

home.html



Welcome to Malayalam News Portal

Click on a link to read news!!!!

"The newspaper is a greater treasure to the people than uncounted millions of gold."
Henry Ward Beecher

combined output



EXPERIMENT NO : 5

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

SOURCE CODE

css.html

```
<html>
<head>
<title>CSS</title>
<link rel="stylesheet" href="style.css">
<style>
h2{color: red;}
</style>
</head>
<body>
<h1 style="color:blue;">This heading is coloured using inline css</h1>
<h2>This sentence is coloured using internal css.</h2>
<p>This paragraph is coloured using external css.</p>
</body>
</html>
```

style.css

```
body {
background-color: green;
}
p {
color: white;
}
```

OUTPUT

This heading is coloured using inline css

This sentence is coloured using internal css.

This paragraph is coloured using external css.

EXPERIMENT NO : 6

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

SOURCE CODE

Predefined data

username password

090MCA21 4345

091MCA21 4445

092MCA21 4446

089MCA21 4647

Form validation.html

```
<!DOCTYPE html>
```

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

```
<style>
```

```
body {
```

```
background-image: url('http://owncloud.fisat.edu/core/img/background.jpg');
```

```
}
```

```
</style>
```

```
<script>
```

```
function validateForm()
```

```
{
```

```
var x = document.forms["login"]["uname"].value;
```

```
var y=document.forms["login"]["pname"].value;
```

```
if (x == "")
```

```
{
```

```
alert("username must be filled out");
```

```
return false;
}
else if (y == "")
{
alert("password must be filled out");
return false;
}
else if(x=="090MCA21")
{
if(y != "4345")
{
alert("Incorrect Password");
return false;
}
}
else if(x == "091MCA21")
{
if(y != "4445")
{
alert("Incorrect Password");
return false;
}
}
else if(x=="092MCA21")
{
if(y != "4446")
```


[illegible]

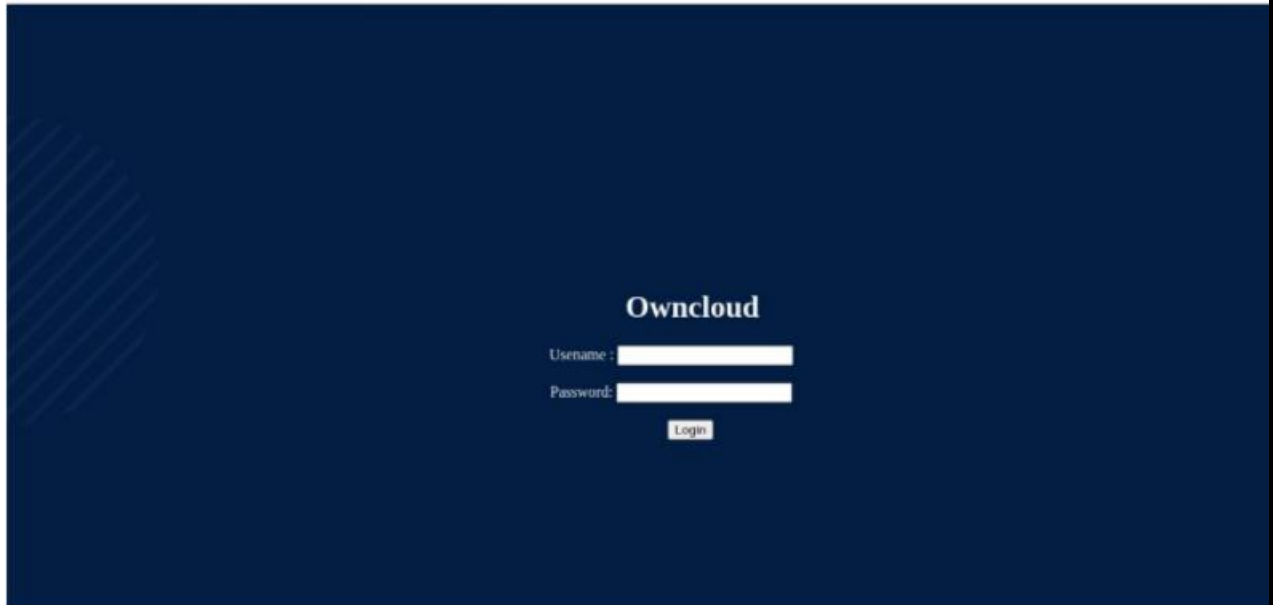
```
<input type="text" name="uname"><br><br>
<input type="password" name="pname">Password: <br><br>
<input type="submit" value="Login">
</form>
</body>
</html>
```

success.html

```
<html>
<head>
<title>Success</title>
<style>
body {
background-image: url('http://owncloud.fisat.edu/core/img/background.jpg');
}
</style>
</head>
<body>
<br><br><br><br><br><br><br><br>
<font color="white">
<h1 align="center">Success</h1>
</font>
</body>
</html>
```

OUTPUTS

Form validation.html

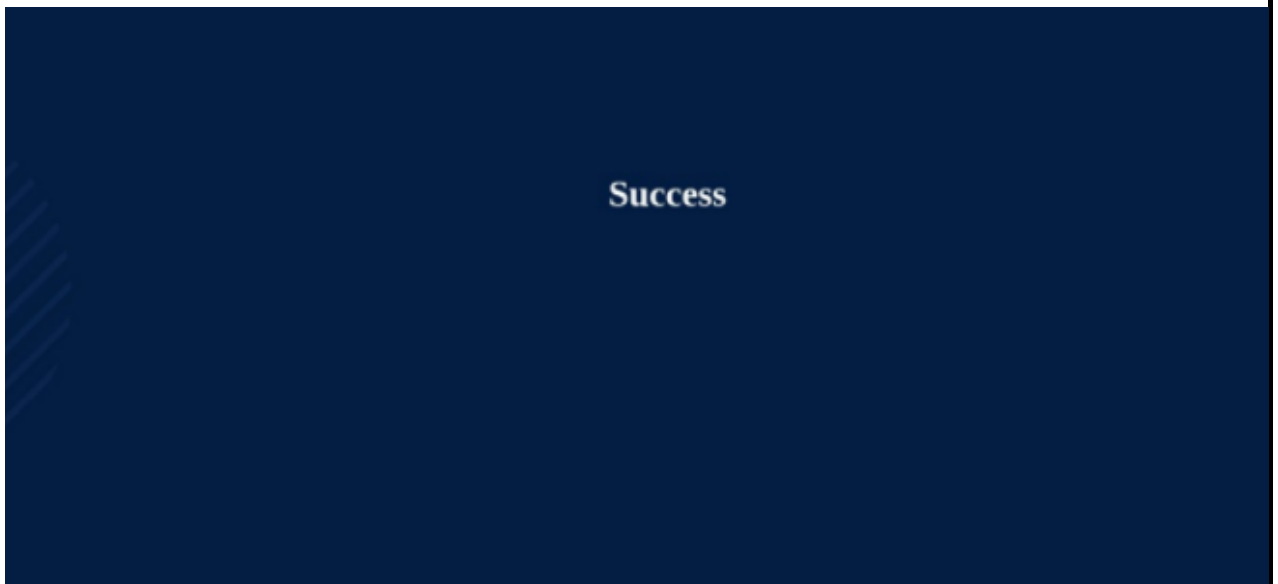
A screenshot of the Owncloud login interface. The background is a dark blue gradient with a subtle pattern of diagonal lines on the left side. In the center, the word "Owncloud" is displayed in a white serif font. Below it, there are two white input fields: "Username :" and "Password:". A small "Login" button is positioned below the password field.

Owncloud

Username :

Password:

success.html



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

SOURCE CODE

Program 7.1.html

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript String Properties</h2>
<h3>Length</h3>
<p>The length property returns the length of a string:<br>text="Amalraj
Joseph"<br>Command :text.length<br>Result:</p>
<p id="length"></p>
<h3>Slice</h3>
<p>The slice() method extract a part of a string
and returns the extracted parts in a new string:<br>str="Apple, Banana,
Kiwi"<br>Command:str.slice(7,13),<br>Result:</p>
<p id="slice"></p>
<h3>substring()</h3>
<p>The substring() method extract a part of a string and returns the extracted parts in a new
string:<br>str1="Apple, Banana, Kiwi"<br>Command :str1.substring(7,13)<br>Result :</p>
<p id="ss"></p>
<h3>Replace()</h3>
<p>Replace a text with another:<br>text="Please Visit
Microsoft"<br>Command :text.replace("Microsoft","W3Schools")<br>Result:</p>
```

```

<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
<button onclick="replaceFunction()">Try it</button>
<p id="replace">Please visit Microsoft!</p>
<h3>Upper Case()</h3>
<p>Convert string to upper case:<br>text="Hello World!"<br>Command
:text.toUpperCase()<br>Result:</p>
<button onclick="upFunction()">Try it</button>
<p id="toupper">Hello World!</p>
<h3>Lower Case()</h3>
<p>Convert string to lower case:<br>text="Hello World!"<br>Command
:text.toLowerCase()<br>Result:</p>
<button onclick="lowFunction()">Try it</button>
<p id="tolower">Hello World!</p>
<h3>Concate</h3>
<p>The concat() method joins two or more
strings:<br>text1="Hallo"<br>text2="World"<br>Command
:text3=text1.concat("
".text2())<br>Result:</p>
<p id="concat"></p>
<h3>The trim() Method</h3>
<p id="trim"></p>
<h3>CharAt()</h3>
<p>The charAt() method returns the character at a given position in a string:</p>
<p id="cat"></p>
<script>
let text ="Amalraj Joseph";
document.getElementById("length").innerHTML = text.length;
let str = "Apple, Banana, Kiwi";

```

```
document.getElementById("slice").innerHTML = str.slice(7,13);
let str1 = "Apple, Banana, Kiwi";
document.getElementById("ss").innerHTML = str1.substring(7,13);
function replaceFuction() {
let te = document.getElementById("replace").innerHTML;
document.getElementById("replace").innerHTML =
te.replace("Microsoft!", "W3Schools!");
}
function upFunction() {
let text = document.getElementById("toupper").innerHTML;
document.getElementById("toupper").innerHTML =
text.toUpperCase();
}
function lowFunction() {
let text = document.getElementById("tolower").innerHTML;
document.getElementById("tolower").innerHTML =
text.toLowerCase();
}
let text1 = "Hello";
let text2 = "World!";
let text3 = text1.concat(" ",text2);
document.getElementById("concat").innerHTML = text3;
let text4= " Hello World! ";
let text5= text4.trim();
document.getElementById("trim").innerHTML =
"Length text4=" + text4.length + "<br>Length2 text5=" + text5.length;
var cattext = "HELLO WORLD";
```

```
document.getElementById("cat").innerHTML ="Character at position 0 of HELLO WORLD is "
+
cattext.charAt(0);
</script>
</body>
</html>
```

Program 7.2.html

```
<html>
<body>
<h2>JavaScript Math Object</h2>
<h3>Math.round</h3>
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>
<p id="round"></p>
<h3>Math.ceil</h3>
<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</p>
<p id="ceil"></p>
<h3>JavaScript Math.floor</h3>
<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to its nearest integer:</p>
<p id="floor"></p>
<h3>Math.trunc</h3>
<p>Math.trunc(x) returns the integer part of x:</p>
<p id="trunc"></p>
<h2>Math.sign</h2>
<p>Math.sign(x) returns if x is negative, null or positive:</p>
<p id="sign"></p>
<h3>Math.pow</h3>
<p>Math.pow(x,y) returns the value of x to the power of y:</p>
<p id="pow"></p>
```

Math.sqrt()

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

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

Math.abs()

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

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

Math.sin()

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

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

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

Math.random()

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

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

Tip: Click on "Run" several times.

```
<script>
```

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

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

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

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

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

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

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

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

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

```
180);
```

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

```
</script>
```


</body>

</html>

OUTPUTS

Program 7.1.html

JavaScript String Properties

Length

The length property returns the length of a string:

text="Amalraj Joseph"

Command :text.length

Result:

14

Slice

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

str="Apple, Banana, Kiwi"

Command:str.slice(7,13),

Result:

Banana

substring()

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

str1="Apple, Banana, Kiwi"

Command :str1.substring(7,13)

Result :

Banana

Replace()

Replace a text with another:

text="Please Visit Microsoft"

Command :text.replace("Microsoft","W3Schools")

Result:

Replace "Microsoft" with "W3Schools" in the paragraph below:

[Try it](#)

Please visit Microsoft!

Upper Case()

Convert string to upper case:

text="Hello World!"

Command :text.toUpperCase()

Result:

[Try it](#)

Hello World!

Lower Case()

Convert string to lower case:

text="Hello World!"

Command :text.toLowerCase()

Result:

[Try it](#)

Hello World!

Concat

The concat() method joins two or more strings:

text1="Hallo"

text2="World"

Command :text3=text1.concat(" "+text2)()

Result:

Hello World!

The trim() Method

Length text4=22

Length2 text5=12

CharAt()

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

Character at position 0 of HELLO WORLD is H

Program 7.2.html

JavaScript Math Object

Math.round

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

Math.round(4.5)=5

Math.ceil()

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

Math.ceil(4.4)=5

JavaScript Math.floor()

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

Math.floor(4.7)=4

trunc()

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

Math.trunc(4.7)=4

Math.sign()

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

Math.sign(4)=1

Math.pow()

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

Math.pow(8,2)=64

Math.sqrt()

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

Math.sqrt(64)=8

Math.abs()

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

Math.abs(-4.4)=4.4

Math.sin()

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.random()

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

Math.random()=0.21508744183079287

Tip: Click on "Run" several times.

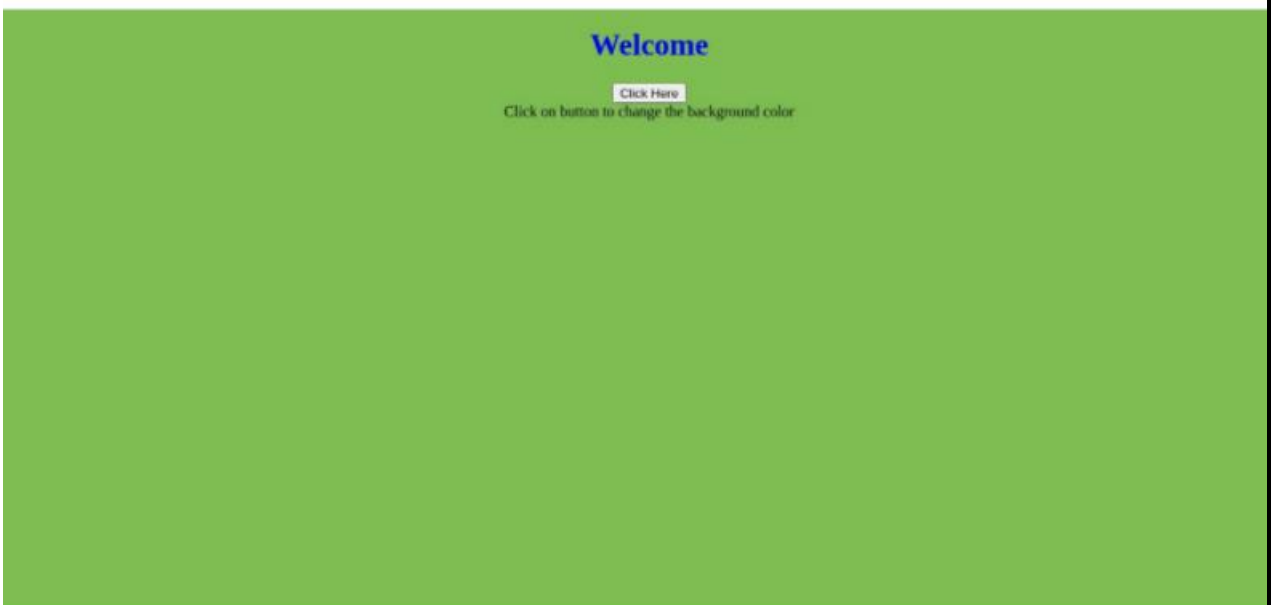
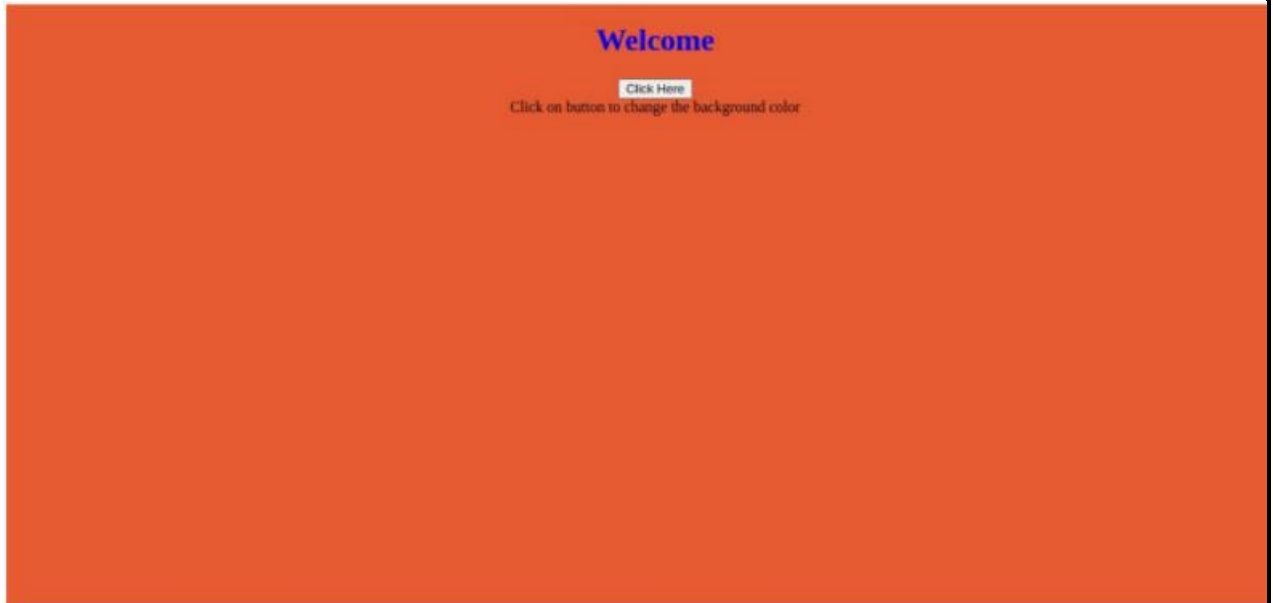
EXPERIMENT NO : 8

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()*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: #E6E6E6;
}
</style>
</head>
<body>
<b><u>CALENDAR</u></b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" /> <br>
```

```

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

<script>
var year = document.getElementById("cal").value; var month =
document.getElementById("month").value; function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
}
function createCalendar(elem, year, month) {
let mon = month - 1; let d = new Date(year, mon);
let table =
'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</t
h><th>FRI</th><th>SAT</th><th>SUN</th></tr><tr><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 : 2000

Enter The Month: 11

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	*	*	*

CALENDAR

Enter The year : 2000

Enter The Month: 07

MON	TUE	WED	THU	FRI	SAT	SUN
*	*	*	*	*	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	*	*	*	*	*	*

EXPERIMENT NO : 10

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

SOURCE CODE

Program10.html

[illegible]

Program10.1.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>
```

OUTPUTS

Program10.html

Electricity Board

Consumer Number:

Customer name :

Unit :

Program10.1.php

Electricity Bill

Name :Amalraj Joseph

Consumer number :1110111567

Price/Unit :4

Unit :1000

Amount :4000

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

```
<?php $arr=array("Amalraj Joseph","Abhijith Rajeev","Anagha Vinayakan","Ananthakrishnan H");

echo 'Arrayy $arr :';

echo "&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;";

print_r($arr);

echo "<br>";

sort($arr);

echo 'Arrayy $arr after sort() :';

echo "&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;";

print_r($arr);

echo "<br>";

asort($arr);

echo 'Arrayy $arr after asort() :';

echo "&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;";

print_r($arr);

?>
```

OUTPUT

```
Arayy Sarr :   Array ( [0] => Amalraj Joseph [1] => Abhijith Rajeev [2] => Anagha Vinayakan [3] => Ananthakrishnan H )  
Arayy Sarr after sort() :   Array ( [0] => Abhijith Rajeev [1] => Amalraj Joseph [2] => Anagha Vinayakan [3] => Ananthakrishnan H )  
Arayy Sarr after asort() :   Array ( [0] => Abhijith Rajeev [1] => Amalraj Joseph [2] => Anagha Vinayakan [3] => Ananthakrishnan H )
```

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

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>
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>
```

search.html

```
<html>
```

```
<head>
```

```
<title>search</title>
```

```
</head>
```

```
<body>
```

```
<form name="frm2" action="http://localhost/~stud/search1.php"
```

```
method="POST">
```

```
<center>
```

```
<b><u>SEARCH A BOOK</u></b><br>
```

```
Enter book title:<input type="text" name="txt"><br>
```

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

```
</center>
```

```
</form>
```

```
</body>
```

```
</html>
```

/home/stud/public_html/addl.php

```
<?php
```

```
$num=$_POST['num'];
```

```
$tit=$_POST['tit'];
```

```
$author=$_POST['author'];
```

```
$edi=$_POST['edi'];
```

```
$pub=$_POST['pub'];
$con=mysqli_connect("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo 'Failed to connect'; }
else
{
echo 'connected';
}
$sql="INSERT INTO book85 VALUES($num,'$tit','$author',$sedi,$pub)";
if($con->query($sql))
{
echo '<BR>';
echo 'New row added';
}
else
{
echo 'ERROR:could not execute query';
}
$con->close();
?>
```

/home/stud/public_html/search1.php

```
<?php
$title=$_POST['txt'];
$con=mysqli_connect("localhost","fisat","fisat","fisatdb");
if($con==false)
{
```

```
echo 'Failed to connect';  
}  
else  
{  
echo "connected<br>";  
}  
$sql="select * from book85 where title='$title';"  
if($result=$con->query($sql))  
  
{  
if($result->num_rows>0)  
{  
while($row=$result->fetch_array())  
{ echo  
"<br>".$row[0].'.'.$row[1].'.'.$row[2].'.'.$row[3].'.'.$row[4]."<br>";}  
$result->close();  
}else  
{ echo "<br>Could not found the book"; }  
}  
else  
{ echo "<br>Error:could not connect"; }  
$con->close();  
?>
```

OUTPUTS

bookinfo.html

BOOK INFORMATION SYSTEM

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

add_book.html

Enter Book Details

Access Number:
Title:
Author:
Edition:
Publisher:

/home/stud/public_html/addl.php

connected
New row added

search.html

SEARCH A BOOK

Enter book title:

/home/stud/public_html/search1.php

connected

100:Java:Smith:4:Tata

101:Java:Ken:4:S Chand

database(fisatdb)

```

MariaDB [fisatdb]> SELECT * FROM book85;
+-----+-----+-----+-----+-----+
| accno | title | author | edition | publisher |
+-----+-----+-----+-----+-----+
| 100 | Java | Smith | 4 | Tata |
| 101 | Java | Ken | 4 | S Chand |
| 102 | CPP | Alex | 1 | McGill |
| 104 | CPP | Kiran | 5 | McGill |
| 110 | C | Kumar | 12 | McGill |
| 112 | C | Jayraj | 10 | Jaypee |
| 200 | Python | Ken | 12 | Tata |
+-----+-----+-----+-----+-----+
7 rows in set (0.000 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

main.html

```
<html>
<head>
<title>book</title>
</head>
<body align="center"><u>FLIGHT INFORMATION SYSTEM</u><br>
<a href="add.html">Add Details</a><br>
<a href="search_plane.html">Search Flight</a><br>
<a href="search_airline.html">Search Airline</a><br>
</body>
</html>
```

add.html

```
<html><head>
<title>add details</title></head>
<body>
<form name="frm1" action="http://localhost/~stud/add_plane.php" method="POST">
<center><b><u>Enter Details</u></b><br>
Flight Number:<input type="text" name="num"><br>
Airline:<input type="text" name="airline"><br>
Source:<input type="text" name="src"><br>
Destination:<input type="text" name="dest"><br>
Date:<input type="text" name="date"><br>
```

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

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

```
</form>
```

```
</body>
```

```
</html>
```

search_airline.html

```
<html>
```

```
<head>
```

```
<title>search_airline</title>
```

```
</head>
```

```
<body>
```

```
<form name="frm3" action="http://localhost/~stud/search_airline.php"
```

```
method="POST">
```

```
<center>
```

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

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

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

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

```
</center>
```

```
</form>
```

```
</body>
```

```
</html>
```

search_plane.html

```
<html>
```

```
<head>
```

```
<title>search_plane</title>
```

```
</head>
<body>
<form name="frm2" action="http://localhost/~stud/search_plane.php"
method="POST">
<center>
<b><u>SEARCH A PLANE</u></b><br>
Source:<input type="text" name="src"><br>
Destination:<input type="text" name="dest"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</center>
</form>
</body>
</html>
```

add_plane.php

```
<?php
$num=$_POST['num'];
$airline=$_POST['airline'];
$src=$_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';
}
$sql="INSERT INTO flight31 VALUES($num,$airline,$src,$dest,$date)";
if($con->query($sql))
{
echo '<BR>';
echo 'New row added';
}
else
{
echo 'ERROR:could not execute query';
}
$con->close();
?>
```

search_plane.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<br>";
}
```

```
}  
$sql="select * from flight31 where src='$src' and dest='$dest';"  
if($result=$con->query($sql))  
{  
if($result->num_rows>0)  
{  
while($row=$result->fetch_array())  
{ echo  
"<br>".$row[0].':'.$row[1].':'.$row[2].':'.$row[3].':'.$row[4]."<br>";}  
$result->close();  
}else  
{ echo "<br>Sorry!!! No service found."; }  
}  
else  
{ echo "<br>Error:could not connect"; }  
$con->close();  
?>
```

search_airline.php

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

```
{
echo "connected<br>";
}
$sql="select * from flight31 where airline='$airline'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo
"<br>".$row[0].':'.$row[1].':'.$row[2].':'.$row[3].':'.$row[4]."<br>";}
$result->close();
}else
{ echo "<br>Could not find matches"; }
}
else
{ echo "<br>Error:could not connect"; }
$con->close();
?>
```

OUTPUTS

main.html

FLIGHT INFORMATION SYSTEM

[Add Details](#)
[Search Flight](#)
[Search Airline](#)

add.html

Enter Details

Flight Number:
Airline:
Source:
Destination:
Date:

add_plane.php

connected
New row added

search_plane.html

SEARCH A PLANE

Source:

Destination:

search_plane.php

connected

100:Air India:New Delhi:Mumbai:11/12/2014

101:Air India:New Delhi:Mumbai:12/12/2014

115:Starlink:New Delhi:Mumbai:14/12/2014

search_airline.html

SEARCH AN AIRLINE

Name:

search_airline.php

connected

100:Air India:New Delhi:Mumbai:11/12/2014

101:Air India:New Delhi:Mumbai:12/12/2014

107:Air India:Kannur:Chennai:14/12/2014

110:Air India:Tvm:Mumbai:12/12/2014

Database(fisatdb)

MariaDB [fisatdb]> SELECT * FROM flight31;

num	airline	src	dest	date
100	Air India	New Delhi	Mumbai	11/12/2014
101	Air India	New Delhi	Mumbai	12/12/2014
102	Starlink	New Delhi	Chennai	11/12/2014
103	Starlink	Chennai	Cochin	13/12/2014
104	Aster	Mumbai	Kannur	12/12/2014
105	Aster	Cochin	Mumbai	12/12/2014
106	Aster	Cochin	New Delhi	13/12/2014
107	Air India	Kannur	Chennai	14/12/2014
108	Starlink	Chennai	Mumbai	14/12/2014
109	Starlink	Mumbai	Cochin	13/12/2014
110	Air India	Tvm	Mumbai	12/12/2014
111	Air Dubai	Abudabi	Calicut	11/12/2014
112	National Airways	New York	New Delhi	14/12/2014
113	Kingfisher	Tvm	New Delhi	12/12/2014
114	Starlink	Calicut	Chennai	13/12/2014

15 rows in set (0.001 sec)

MariaDB [fisatdb]> █
