FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577

FOCUS ON EXCELLENCE

20MCA133 - WEB PROGRAMMING LAB

LABORATORY RECORD

Name: **ANU FRANCIS**

Branch: **MASTER OF COMPUTER APPLICATIONS**

Semester: 1 **Batch: A** **Roll No: 31**

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

(FISAT)™

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University Exam.Reg. No: FIT21MCA-2031

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CERTIFICATE

*This is to certify that this is a Bonafide record of the Practical work done by **ANU FRANCIS (FIT21MCA-2031)** in the **20MCA133 WEB PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022*

Signature of Staff in Charge

Name:

Date:

Signature of H.O.D

Name:Dr Deepa Mary Mathews

Date of University practical examination ……

Signature of

Internal Examiner

Signature of

External Examiner

CONTENT

11		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.	27	
12		Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.	28	
13		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	29-32	
14		Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.	33-36	

EXPERIMENT NUMBER :01

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>
<h1> MATTOM </h1>
<p> Mattom is a small village suitated near the suburban town
<strong>Guruvayoor</strong> .
It is a historical place in Thrissur district, Kerala, India.The historical monuments are these:
<ol>
<li><strong> Kudakallu </li>
<li>Munimada</li>
<li>St.Thomas forane church,Mattom(AD 140)</li>
<li> Our lady of perpetual help shrine, Mattom</li>
</ol>
</p>
<h2>kudakallu</h2>
<p> Kudakallu is a hiostorical artifact,
which is in the shape of an umberalla.
Kudakkallu Parambu is a prehistoric Megalith burial site situated in
ariyannoor of Thrissur District of Kerala.
The site has 7 megalithic monuments spread over a small area.
Different types of burials in this area include Topikkal,
Kudakkal, multiple hood stones and stone circles.
</p>
<img src="///home/ccf/Downloads/kudakallu.jpeg" align="center" > <br><br><br>
<h2>Munimada </h2>
<p>It is an archaeological site near Mattom near Guruvayur, Kerala, India.It is one of many burial systems which was prevalent in these regions about BCE 2000.It can be reached in about 1km from Mattom in Thrissur, Guruvayur.
<img src="///home/ccf/Downloads/munimada.jpg" align="center" height="20%" >
</p>

</body>
</html>
```

OUTPUT:

MATTOM

Mattom is a small village suitated near the suburban town **Guruvayoor** . It is a historical place in Thrissur district, Kerala, India.The historical monuments are these:

1. **Kudakallu**
2. **Munimada**
3. **St.Thomas forane church,Mattom(AD 140)**
4. **Our lady of perpetual help shrine, Mattom**

kudakallu

Kudakallu is a hiostorical artifact, which is in the shape of an umberalla. Kudakkallu Parambu is a prehistoric Megalith burial site situated in ariyannoor of Thrissur District of Kerala. The site has 7 megalithic monuments spread over a small area. Different types of burials in this area include Topikkal, Kudakkal, multiple hood stones and stone circles.

Munimada

It is an archaeological site near Mattom near Guruvayur, Kerala, India.It is one of many burial systems which was prevalent in these regions

about BCE 2000.It can be reached in about 1km from Mattom in Thrissur, Guruvayur.

EXPERIMENT NUMBER :02

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>BIO-DATA</title>
</head>
<body>
<h1><center>BIO-DATA</center></h1>
<table width="800" border="1" align="center"  cellpadding="5">

<tr>
<td colspan="2" align="center"> <img src="///home/ccf/Downloads/Error" height="200"
width="150"  border="2"> </td>
</tr>
<tr>
<td>name</td>
<td> :Anu Francis</td>
</tr>
<tr>
<td>present address</td>>
<td>:mulakkal house, mattom (po),
pin:680602</td>
<tr>
<td>permamant address</td>
<td> :same as the present adress</td>
</tr>
<tr>
<td> date of birth</td>
<td> :17/07/2000 </td>
</tr>
<tr>
<td> sex </td>
<td> :female</td>
</tr>
<tr>
<td> father's name </td>
<td> Francis MV </td>
</tr>
<tr>
```

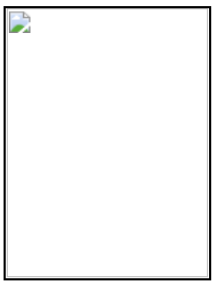
```
<td colspan="2"> <a href="education.html"> Education </td> </a>
</tr>

</table>
```

Education.html

```
<html>
<head>
<title> education.html </title>
</head>
<body>
<h1><center> EDUCATION <center></h1>
<table width="800" border="1" align="center"  cellpadding="5">

<tr>
<td  rowspan="2">primary education</td>
<td>St.Mary's CLP School,mattom,</td></tr>
<tr><td>Assisi EMHSS Thalakkottukara,Kechery</td></tr>

<tr>
<td>secondary education</td>>
<td>Assisi EMHSS Thalakkottukara,Kechery</td>
<tr>
<td>UG</td>
<td> St.Mary's College Thrissur</td>
</tr>
<tr>
<td> PG</td>
<td> Pursuing MCA at FISAT, Angamaly </td>
</tr>
</body>
</html>
```

OUTPUT:

BIO-DATA



name	:Anu Francis
present address	:mulakkal house, mattom (po), pin:680602
permamant address	:same as the present adress
date of birth	:17/07/2000
sex	:female
father's name	Francis MV
Education	

EDUCATION

primary education	St.Mary's CLP School,mattom,
	Assisi EMHSS Thalakkottukara,Kechery
secondary education	Assisi EMHSS Thalakkottukara,Kechery
UG	St.Mary's College Thrissur
PG	Pursuing MCA at FISAT, Angamaly

EXPERIMENT NUMBER :03

AIM:

Create an application form for MCA course in FISAT.

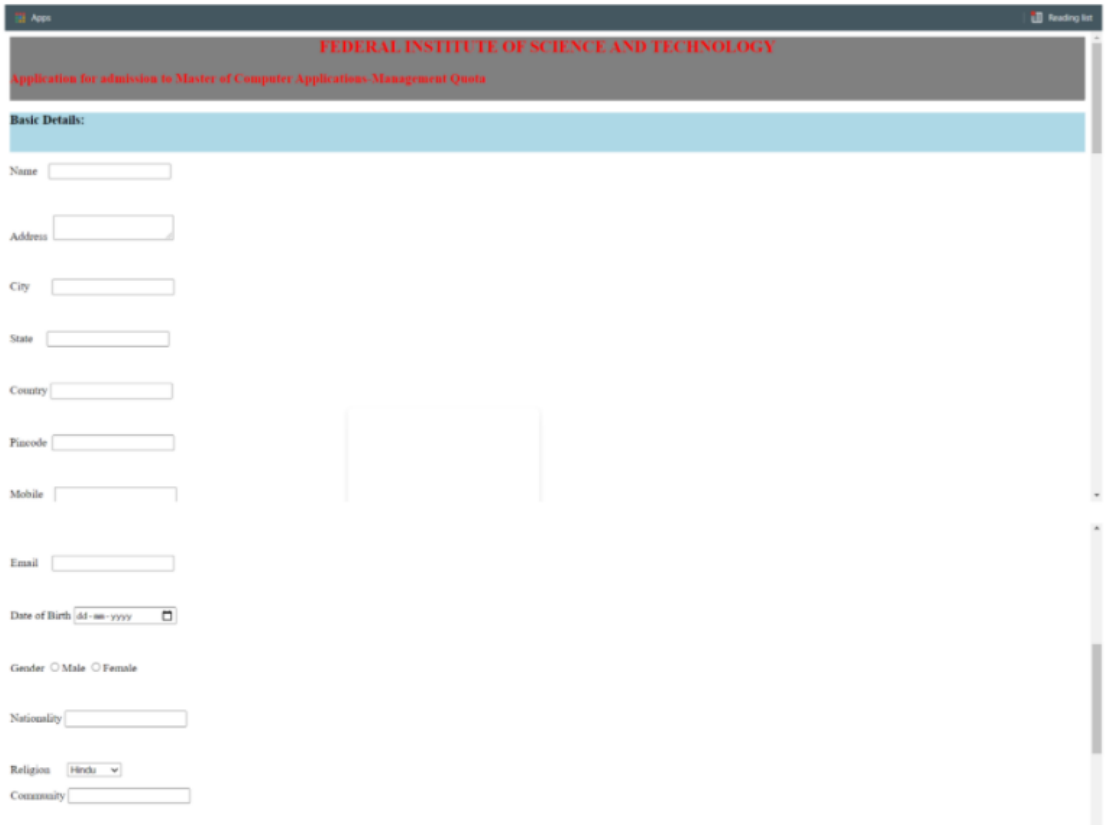
PROGRAM CODE:

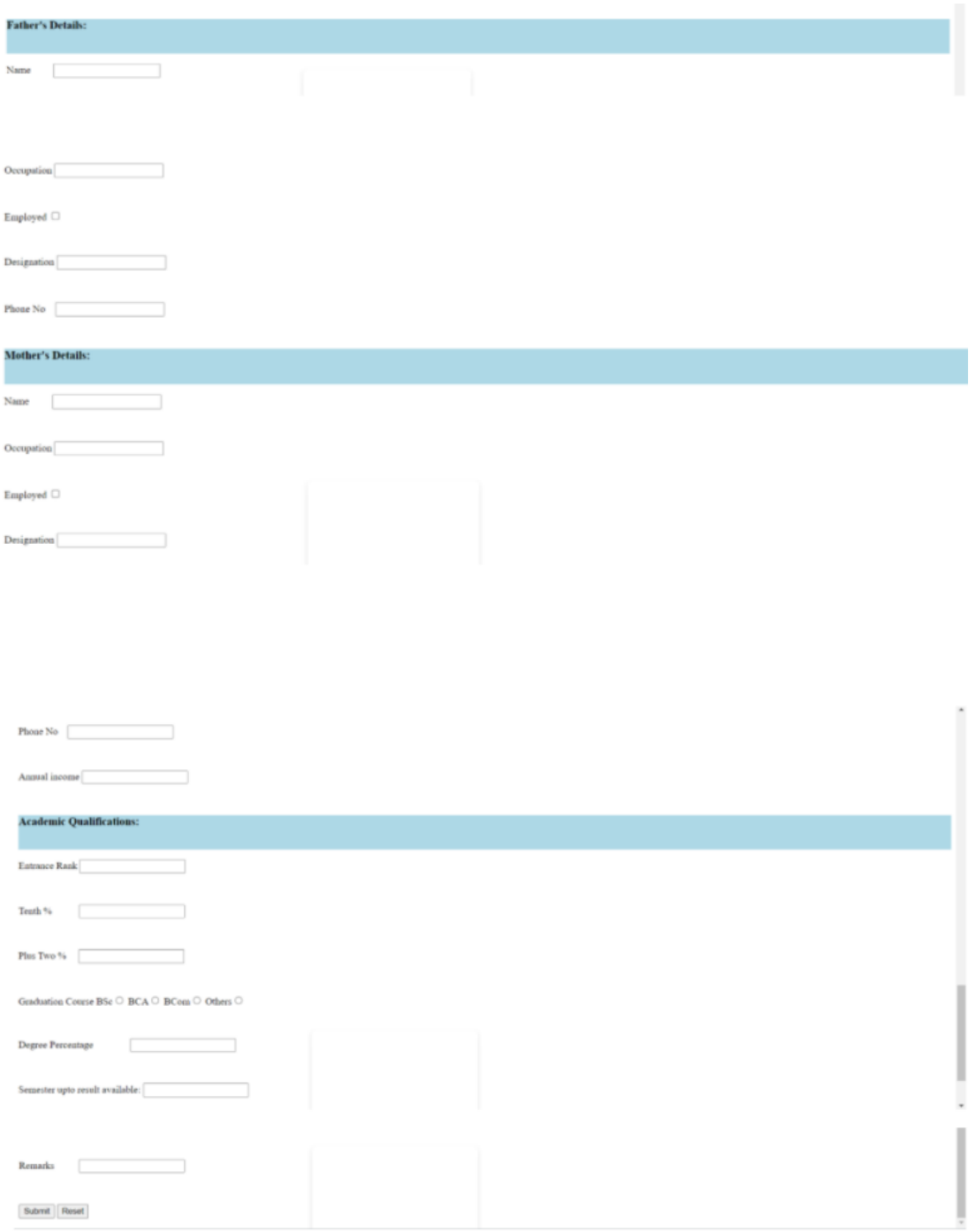
```
<html>
<head>
<title>Application form</title>
</head>
<body text=red>
<div style="background-color:grey">
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY<center></h2>
<h3>Application for admission to Master of Computer Applications-Management
Quota</h3>
<hr></div>
<font color=black>
<form action=application.php method=post>
<div style="background-color:lightblue"><p><b><font color=black size=4>Basic
Details:</font></b></p><br></div>
<p>Name   
<input type=textfield></p><br>
<p>Address 
<textarea></textarea></p><br>
<p>City       
<input type=textfield></p><br>
<p>State    
<input type=textfield></p><br>
<p>Country
<input type=textfield></p><br>
<p>Pincode 
<input type=textfield></p><br>
<p>Mobile   
<input type=textfield></p><br>
<p>Email    
<input type=textfield></p><br>
<p>Date of Birth
<input type=date></p><br>

<p>Gender
<input type=radio name=gender>Male
<input type=radio name=gender>Female</p><br>
<p>Nationality
```

```
<input type=textfield></p><br>
<p>Religion     
<select>
<option value=Hindu>Hindu
<option value=Christian>Christian
<option value=Muslim>Muslim
<option value=Others>Others
</select><br>
<p>Community
<input type=textfield></p><br>
<div style="background-color:lightblue"><p><b><font color=black size=4>Father's
Details:</font></b></p><br></div>
<p>Name        
<input type=textfield></p><br>
<p>Occupation
<input type=textfield></p><br>
<p>Employed
<input type=checkbox></p><br>
<p>Designation
<input type=textfield></p><br>
<p>Phone No   
<input type=textfield></p><br>
<div style="background-color:lightblue"><p><b><font color=black size=4>Mother's
Details:</font></b></p><br></div>
<p>Name        
<input type=textfield></p><br>
<p>Occupation
<input type=textfield></p><br>

<p>Employed
<input type=checkbox></p><br>
<p>Designation
<input type=textfield></p><br>
<p>Phone No   
<input type=textfield></p><br>
<p>Annual income
<input type=textfield></p><br>
<div style="background-color:lightblue"><p><b><font color=black size=4>Academic
Qualifications:</font></b></p><br></div>
<p>Entrance Rank
<input type=textfield></p><br>
<p>Tenth %          
<input type=textfield></p><br>
<p>Plus Two %    
<input type=textfield></p><br>
<p>Graduation Course
BSc<input type=radio name="Graduation Course" value=BSc>
```

```
BCA<input type=radio name="Graduation Course" value=BCA>
BCom<input type=radio name="Graduation Course" value=BCom>
Others<input type=radio name="Graduation Course" value=Others></p><br>
<p>Degree
Percentage          &
nbsp; &n
bsp; 
<input type=textfield></p><br>
<p>Semester upto result available:
<input type=textfield></p><br>
<p>Remarks         
<input type=textfield></p><br>
<p><input type=submit value=Submit>
<input type=reset value=Reset></p>
</form></font>

</body>
</html>
```

OUTPUT:




Father's Details:
Name
Occupation
Employed
Designation
Phone No
Mother's Details:
Name
Occupation
Employed
Designation
Phone No
Annual income
Academic Qualifications:
Entrance Rank
Tenth %
Plus Two %
Graduation Course BSc BCA BCom Others
Degree Percentage
Semester upto result available:
Remarks
Submit
Reset

EXPERIMENT NUMBER :04

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="frame1.html">
<frame name="second" src="frame4.html">
</frameset>
</html>
```

Frame1.html

```
<html>
<head><title>frame1</title>
</head>
<body text="GREEN" bgcolor="YELLOW">
<h1 align="center">MCA</h1>
<a href=about.html target="third">About MCA</a><br>
<a href=https://mca.fisat.ac.in/ target="third">MCA Admssion</a><br>
</body>
</html>
```

Frame2.html

```
<html>
<head><title>frame2</title>
</head>
<body text="GREEN">
<h1 align="center">About</h1>
<p><font size=3 color="black">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>
</body>
</html>

Frame3.html

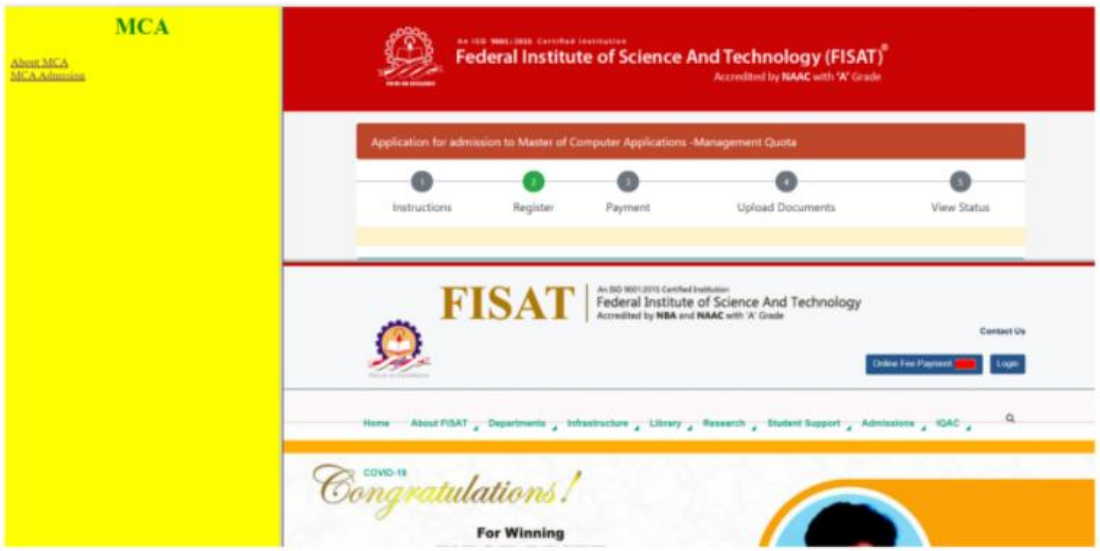
```
<html>
<head><title>frame3</title>
<frameset rows="350,*">
<frame name="third" src="about.html">
<frame name="fourth" src="https://www.fisat.ac.in/">
</frameset>
</html>
```

Frame4.html

```
<html>
<head>
<title>frame4</title>
</head>
<body>
<a href=https://www.fisat.ac.in/ target="fourth"></a>
</body>
</html>
```

OUTPUT:


MCA
About MCA
MCA Admission
About
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.
FISAT
Federal Institute of Science And Technology
Accredited by NBA and NAAC with 'A' Grade
Contact Us
Online Fee Payment
Login
Home
About FISAT
Departments
Infrastructure
Library
Research
Student Support
Admissions
IQAC
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
Congratulations


MCA
About MCA
MCA Admission
Federal Institute of Science And Technology (FISAT)
Accredited by NAAC with 'A' Grade
Application for admission to Master of Computer Applications -Management Quota
Instructions
Register
Payment
Upload Documents
View Status
FISAT
Federal Institute of Science And Technology
Accredited by NBA and NAAC with 'A' Grade
Contact Us
Online Fee Payment
Login
Home
About FISAT
Departments
Infrastructure
Library
Research
Student Support
Admissions
IQAC
COVID-19
Congratulations!
For Winning

EXPERIMENT NUMBER :5

AIM:

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

PROGRAM CODE:

123.css - Notepad

File Edit Format View Help

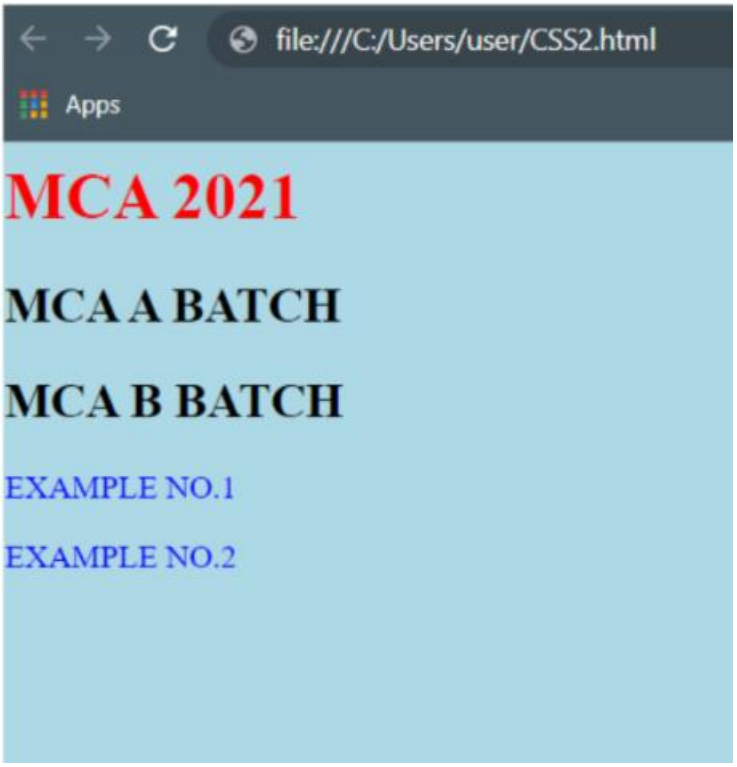
```
body

p {color: green;}
```

*CSS2 - Notepad

File Edit Format View Help

```
<html>
<head><title>css</title>
<link rel="stylesheet" href="123.css">
<style>
body {background-color:lightblue;}
h1   {color: red;}
</style>
</head>
<body>
<h1>MCA 2021</h1>
<h2>MCA A BATCH </h2>
<h2 style="color:black;">MCA B BATCH</h2>
<p>EXAMPLE NO.1 </p>
<P>EXAMPLE NO.2 </P>
</body>
</html>
```

OUTPUT:


file:///C:/Users/user/CSS2.html
Apps
MCA 2021
MCA A BATCH
MCA B BATCH
EXAMPLE NO.1
EXAMPLE NO.2

EXPERIMENT NUMBER :06

AIM:

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

PROGRAM CODE:

```
<!DOCTYPE html>
<html><head>
<script>
function validateForm() {
var x = document.forms["myForm"]["Name"].value;
if (x == "") {
alert("Name must be filled out");
return false;}
var y = document.forms["myForm"]["address"].value;
if (y == "") {
alert("address must be filled out");
return false}
var n = document.forms["myForm"]["phone"].value;
if (n == "") {
alert("phone no must be filled out");
return false;}
var z = document.forms["myForm"]["pin"].value;
if (z == "") {
alert("pin must be filled out");
return false;}
var h = document.forms["myForm"]["pname"].value;
if (h == "") {
alert("name must be filled out");
return false;}
}
</script></head>
<body>
<form name="myForm" action="https://www.fisat.ac.in/"
onsubmit="return validateForm()" method="post">
Name:        <input type="text" name="Name"><br><br>
address:     <input type="text" name="address" ><br><br>
phone no:     <input type="number" name="phone"><br><br>
pincode:      <input type="number" name="pin"><br><br>
father's details:<br><br>
Name: <input type="text" name="pname"><br><br>
qulification: <input type="text"><br><br>
permanant adress:<input type="number"><br><br>
email id:<input type="text"><br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

OUTPUT:

Name:

address:

phone no:

pincode:

father's details:

Name:

qulification:

permanant adress:

email id:

Submit

This page says

Name must be filled out

OK

EXPERIMENT NUMBER :07

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)

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String Properties</h2>

<p>The length of the string:Apple, Banana,Kiwi</p>
<p id="length"></p>
<script>
let str1 = "Apple, Banana, Kiwi";
document.getElementById("length").innerHTML = str1.length;
</script>

<p>The slice() of the string: Apple, Banana, Kiwi ;; at (6,13) is:</p>
<p id="slice"></p>
<script>
let str2 = "Apple, Banana, Kiwi";
document.getElementById("slice").innerHTML = str2.slice(6,13);
</script>

<p>The substring() of the string:Apple, Banana, Kiwi</p>
<p id="substring"></p>
<script>
let str3 = "Apple, Banana, Kiwi";
document.getElementById("substring").innerHTML = str3.substring(7,13);
</script>

<p>The substr() of the string:Apple, Banana, Kiwi</p>
<p id="substringstr"></p>
<script>
let str4 = "Apple, Banana, Kiwi";
document.getElementById("substringstr").innerHTML = str4.substr(7,6);
</script>
<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
<button onclick="myFunction()">Try it</button>
<p id="replace">Please visit Microsoft!</p>
```

```
<script>
function myFunction() {
let str5 = document.getElementById("replace").innerHTML;
document.getElementById("replace").innerHTML =
str5.replace("Microsoft","W3Schools");
}
</script>

<p>Convert string to upper case:Apple, Banana, Kiwi</p>
<p id="uppercase">Apple, Banana, Kiwi</p>
<script>
let str6 = "Apple, Banana, Kiwi";
document.getElementById("uppercase").innerHTML =
str6.toUpperCase();
</script>

<p>Convert string to lower case:Hello World!</p>
<button onclick="myFunction2()">Try it</button>
<p id="lowercase">Hello World!</p>
<script>
function myFunction2() {
let str7 = document.getElementById("lowercase").innerHTML;
document.getElementById("lowercase").innerHTML =
str7.toLowerCase();
}
</script>

<p>The concat() method joins two or more strings:
(text1:Hello) (text2:World!)</p>
<p id="concat"></p>
<script>
let text1 = "Hello";
let text2 = "World!";
let text3 = text1.concat(" ",text2);

document.getElementById("concat").innerHTML = text3;
</script>

<p id="trim"></p>
<script>
let text4 = " Hello World! ";
let text5 = text4.trim();
document.getElementById("trim").innerHTML =
"Length text4=" + text4.length + "<br>Length2 text5=" + text5.length;
</script>

<p>The charAt() of string:HELLO WORLD</p>
<p id="charat"></p>
<script>
var text = "HELLO WORLD";
document.getElementById("charat").innerHTML = text.charAt(4);
```

```
</script>

<p>Display the first array element, after a string split:a,b,c,d,e,f</p>
<p id="array"></p>
<script>
let text6 = "a,b,c,d,e,f";
const myArray = text6.split(",");
document.getElementById("array").innerHTML = myArray[0];
</script>

<p>The indexOf() method returns the position of the first occurrence of a specified
text:Please locate
where 'locate' occurs</p>
<p id="indexof"></p>
<script>
let str8 = "Please locate where 'locate' occurs!";
document.getElementById("indexof").innerHTML = str8.indexOf("locate");
</script>

<p>The search() method returns the position of the first occurrence of a specified text in a
string:</p>
<p id="search"></p>
<script>
let str9 = "Please locate where 'locate' occurs!";

document.getElementById("search").innerHTML = str9.search("locate");
</script>

<p>Check if a string includes "world":Hello world, welcome to the universe.</p>
<p id="includes"></p>
<script>
let text7 = "Hello world, welcome to the universe.";
document.getElementById("includes").innerHTML = text7.includes("world");
</script>

<h2>JavaScript Math functions</h2>

<p>Math.round(x) returns the value of x rounded to its nearest integer:(4.5)</p>
<p id="round"></p>
<script>
document.getElementById("round").innerHTML = Math.round(4.5);
</script>

<p>Math.ceil() rounds a number up to its nearest integer:</p>
<p id="ceil"></p>
<script>
document.getElementById("ceil").innerHTML = Math.ceil(5.4);
</script>

<p>Math.floor(x) returns the value of x rounded down to its nearest integer:(5.4)</p>
<p id="floor"></p>
```

```
<script>
document.getElementById("floor").innerHTML = Math.floor(5.4);
</script>

<p>Math.trunc(x) returns the integer part of x:(5.4)</p>
<p id="trunc"></p>
<script>
document.getElementById("trunc").innerHTML = Math.trunc(5.4);
</script>

<p>Math.sign(x) returns if x is negative, null or positive:</p>
<p id="sign"></p>
<script>
document.getElementById("sign").innerHTML = Math.sign(-4);
</script>

<p>Math.pow(x,y) returns the value of x to the power of y:</p>
<p id="pow"></p>
<script>
document.getElementById("pow").innerHTML = Math.pow(2,4);
</script>

<p>Math.sqrt(x) returns the square root of x:</p>
<p id="sqrt"></p>
<script>
document.getElementById("sqrt").innerHTML = Math.sqrt(64);
</script>

<p>Math.abs(x) returns the absolute (positive) value of x:</p>
<p id="abs"></p>
<script>
document.getElementById("abs").innerHTML = Math.abs(-9.4);
</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="sin"></p>
<script>
document.getElementById("sin").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="cos"></p>
<script>
document.getElementById("cos").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="min"></p>
<script>
document.getElementById("min").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="max"></p>
<script>
document.getElementById("max").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>

<p>Math.random() returns a random number between 0 and 1:</p>
<p id="random"></p>
<p>Tip: refresh several times.</p>
<script>
document.getElementById("random").innerHTML = Math.random();
</script>

<p>Math.log() returns the natural logarithm of a number:</p>
<p id="log"></p>
<script>
document.getElementById("log").innerHTML = Math.log(123);
</script>

</body>
</html>
```

OUTPUT:

JavaScript String Properties

The length of the string:Apple, Banana,Kiwi

The slice() of the string: Apple, Banana, Kiwi ;; at (6,13) is:

The substring() of the string:Apple, Banana, Kiwi

The substr() of the string:Apple, Banana, Kiwi

banana

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

Try it

Please visit W3Schools!

Convert string to upper case:Apple, Banana, Kiwi

APPLE, BANANA, KIWI

Convert string to lower case:Hello World!

Try it

hello world!

The concat() method joins two ormore strings: (text1:Hello)
(text2:World!)
The charAt() of string:HELLO WORLD
Display the first array element, after a string split:a,b,c,d,e,f
The indexOf() method returns the position of the first occurrence of a specified text:Please locate where
'locate' occurs
The search() method returns the position of the first occurrence of a specified text in a string:
Check if a string includes "world":Hello world, welcome to the universe.
JavaScript Math functions
Math.round(x) returns the value of x rounded to its nearest integer:(4.5)
Math.ceil() rounds a number up to its nearest integer:
Math.floor(x) returns the value of x rounded down to its nearest integer:(5.4)
Math.trunc(x) returns the integer part of x:(5.4)
Math.sign(x) returns if x is negative, null or positive:
Math.pow(x,y) returns the value of x to the power of y:
Math.sqrt(x) returns the square root of x:
Math.abs(x) returns the absolute (positive) value of x:
Math.sin(x) returns the sin of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
Math.cos(x) returns the cosine of x (given in radians):

Angle in radians = (angle in degrees) * PI / 180.
Math.min() returns the lowest value in a list of arguments:
Math.max() returns the highest value in a list of arguments.
Math.random() returns a random number between 0 and 1:
Tip: refresh several times.
Math.log() returns the natural logarithm of a number:

EXPERIMENT NUMBER 08 :

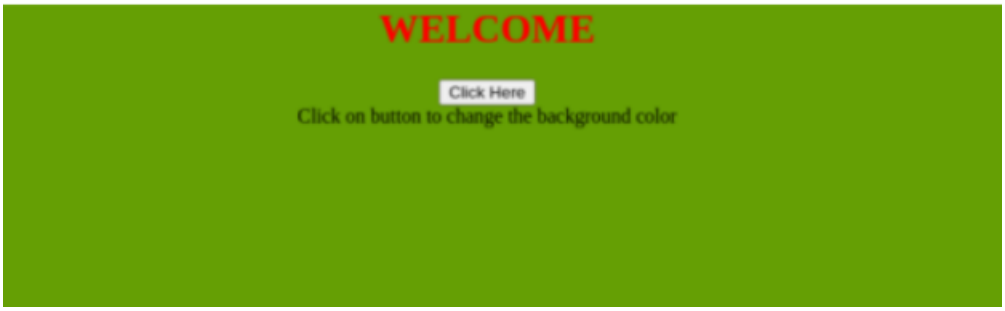
AIM:

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

PROGRAM CODE:

```
<!DOCTYPE HTML>
<html>
<head>
<title>
CHANGING BACKGROUND COLOUR
</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 on button to change the background
color");
const pageBody = document.querySelector("body");
function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFF<<0).toString(16);

pageBody.style.background = color;
}
</script>
</body>
</html>
```

OUTPUT:



EXPERIMENT NUMBER 09 :

AIM:

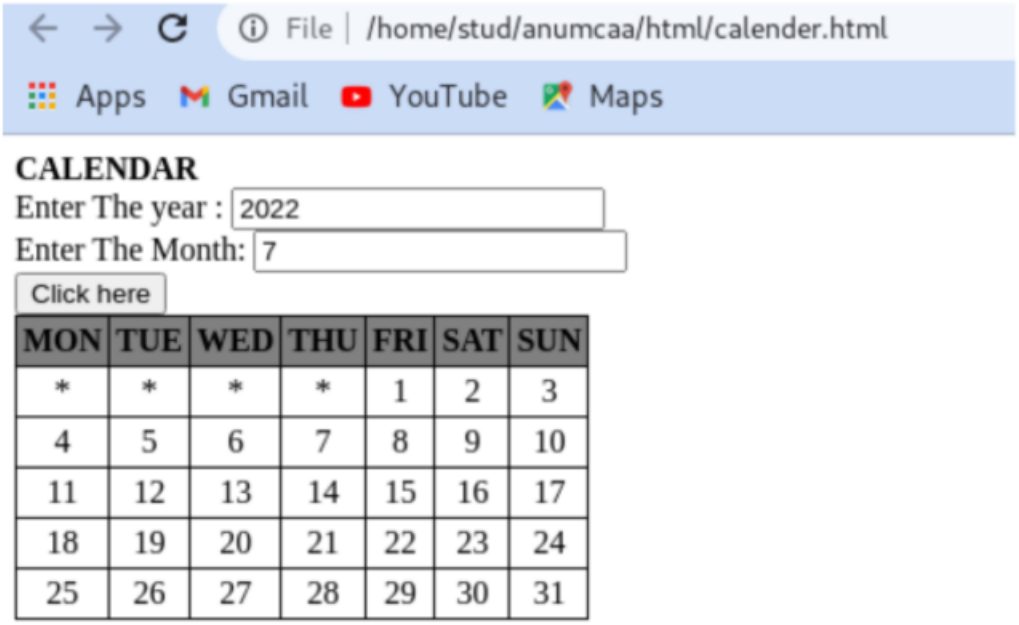
Generate the calendar using JavaScript code by getting the year and month from the user.

PROGRAM CODE:

```
<!DOCTYPE HTML>
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
}
th {
font-weight: bold;
background-color: grey;
}
</style>
</head>
<body>
<b>CALENDAR</b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>
<button onclick="calculate()">Click here</button>
<div id="calendar"></div>
<script>
function calculate() {
var year = document.getElementById("cal").value;
var month = document.getElementById("month").value;
createCalendar(year,month);
}

function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
}
function createCalendar(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</th>
<th>SAT</th><th>SUN</th></tr><tr>';
for (let i = 0; i < getDay(d); i++) {
table += '<td>*</td>';
}
while (d.getMonth() == mon) {

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

OUTPUT:



EXPERIMENT NUMBER 10 :

AIM:

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

PROGRAM CODE:

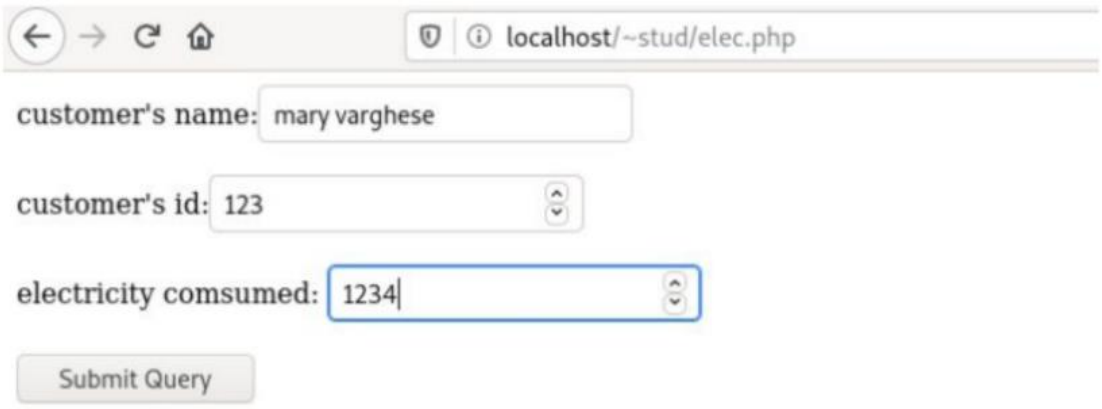
form.php

```
<html>
<form action="welact.php" method="post">
customer's name:<input type="text" name="name"><br><br>
customer's id:<input type="number" name="id"><br><br>
electricity comsumed: <input type="number" name="fname"><br><br>
<input type="submit">
</form>
</html>
```

welact.php

```
<html>
electricity consumed:
<?php
echo $_POST["fname"];
?>
<br>
your amount is <?php
echo $_POST["fname"] * 10;
?>
</html>
```

OUTPUT:



EXPERIMENT NUMBER 11:

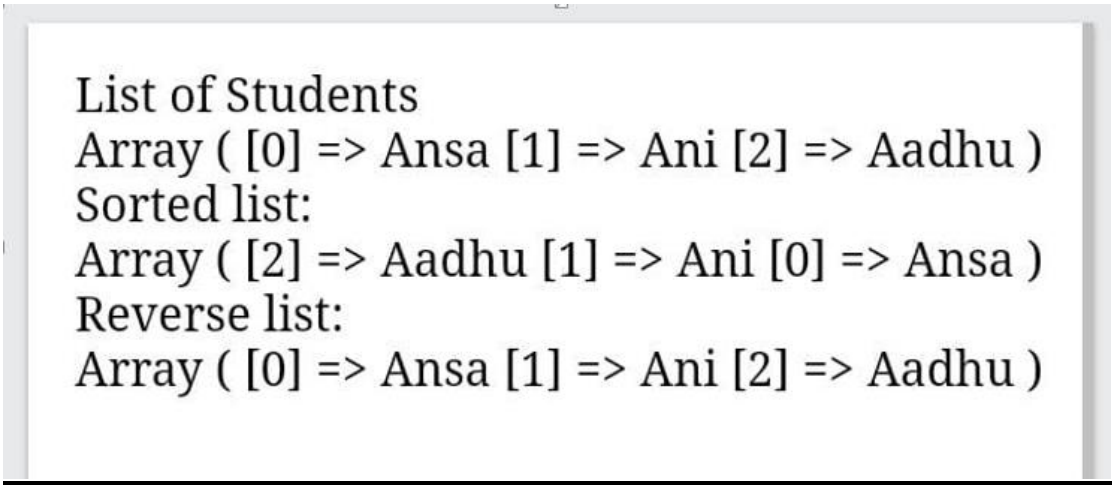
AIM:

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:

```
<?php
$stud=array("Ansa","Ani","Aadhu");
echo "List of Students";
echo "<br>";
print_r($stud);
echo "<br>";
echo "Sorted list:";
echo "<br>";
asort($stud);
print_r($stud);
echo "<br>";
echo "Reverse list:";
echo "<br>";
arsort($stud);
print_r($stud);
?>
```

OUTPUT:



EXPERIMENT NUMBER 12:

AIM:

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

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<body>
<?php
$Indcricketers= array("Virat Kohli", "M S Dhoni", "Rohit Sharma"); echo "Indian Cricketers: " . $Indcricketers[0] . ", " . $Indcricketers[1] ." and" . $Indcricketers[2] . "."; echo "<h3>INDIAN CRICKETERS</h3><table border='1'>
<tr>
<th>NO</th>
<th>NAMES</th>
</tr>
<tr>
<td>1</td>
<td>Virat Kohli</td>
</tr>
<tr>
<td>2</td>
<td>M S Dhoni</td>
</tr>
<tr>
<td>3</td>
<td>Rohit Sharma</td>
</tr>";
?>
</body>
</html>
```

OUTPUT:

Indian Cricketers: Virat Kohli, M S Dhoni andRohit Sharma.

INDIAN CRICKETERS

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

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:

bookinginfo.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="addl.php" method="POST">
<center><b><u>Enter Book Details</u></b><br>
Access number:<input type="number" name="num"><br>
Title:<input type="text" name="tit"><br>
Author:<input type="text" name="author"><br>
Edition:<input type="number" name="edi"><br>
Publisher:<input type="text" name="pub"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

addl.php

```
<?php
$num=$_POST['num'];
$tit=$_POST['tit'];
$author=$_POST['author'];
$edi=$_POST['edi'];
$pub=$_POST['pub'];
```

```
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
}
$sql="INSERT INTO book VALUES($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

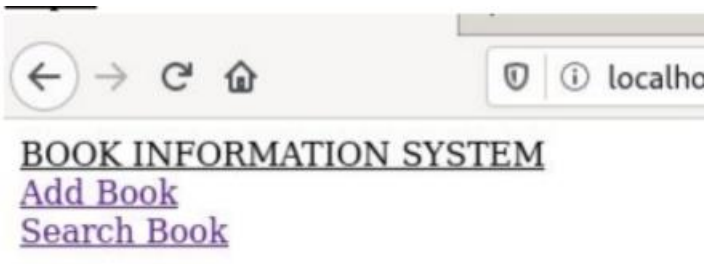
```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="searchl.php"method="POST">
<center>
<b><u>SEARCH A BOOK</u></b><br>
Enter book title:<input type="text" name="txt"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

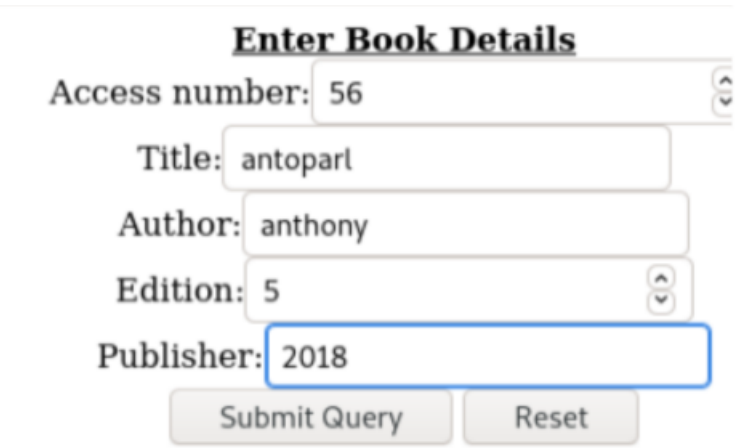
searchl.php

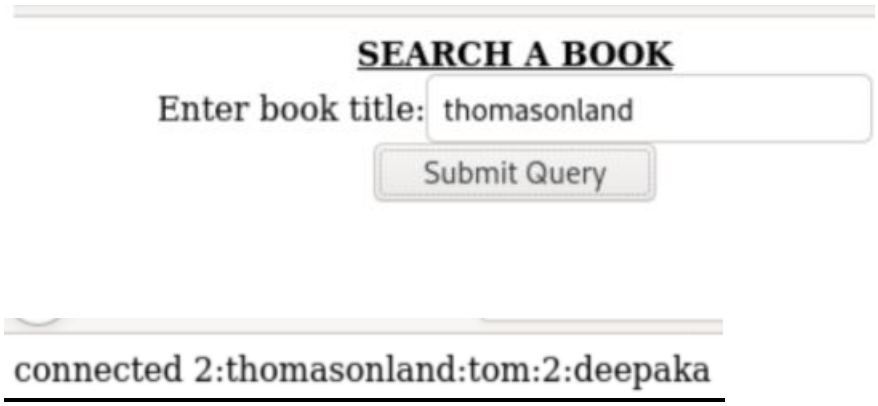
```
<?php
$title=$_POST['txt'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
```

```
}
$sql="select * from book where title='$title'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{
echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".$row[4]."\n";
}
$result->close();
}
else
{
echo "\nCould not found the book";
}
}
else
{
echo "\nError:could not connect";

}
$con->close();
```

OUTPUT:







connected 2:thomasonland:tom:2:deepaka

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:

airlinesystem.html

```
<html>
<head>
<title>flight</title>
</head>
<body align="center"><u>airline system</u><br>
<a href="collection.html">add airline details</a><br>
<a href="display.html">display airline</a><br>
</body>
</html>
```

collection.html

```
<html><head>
<title>airline details collection</title></head>
<body>
<form name="frm1" action="collection.php" method="POST">
<center><b><u>Enter flight Details</u></b><br>
airline name:<input type="text" name="airline_name"><br>
departure time:<input type="number" name="departure_time"><br>
departure:<input type="text" name="departure"><br>
arrival:<input type="text" name="arrival"><br>
arrival time:<input type="number" name="arrival_time"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html
```

display.html

```
<html>
<head>
<title>display</title>
</head>
<body>
<form name="frm2" action="display.php" method="POST">
<center>
<b><u>search the source and destination</u></b><br>
enter the source<input type="text" name="txt"><br>
enter the destination<input type="text" name="txt1"><br>
<input type="submit" name="Submit">
```

```
</center>
</form>
</body>
</html>
```

Collection.php

```
<?php
$airline_name=$_POST['airline_name'];
$departure_time=$_POST['departure_time'];
$departure=$_POST['departure'];
$arrival=$_POST['arrival'];
$arrival_time=$_POST['arrival_time'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
 }
$sql="INSERT INTO airline VALUES(
'$airline_name',$departure_time,'$departure','$arrival',$arrival_time)";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "error:could not execute query";
}
$con->close();
?>
```

display.php

```
<?php
$departure=$_POST['txt'];
$arrival=$_POST['txt1'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
```

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

OUTPUT:

irline_system.html

airline system
add airline details
display airline

Enter flight Details

airline name:
departure time:
departure:
arrival:
arrival time:
Submit Reset

---

search the source and destination

enter the source

enter the destination

Submit
