FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT) TM

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



20MCA131 PROGRAMMING LAB LABORATORY RECORD

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Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 27

University Registration Number: FIT21MCA-2028

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FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

CERTIFICATE

Signature of HOD

External Examiner

This is to certify that this is a Bonafide record of the Practical work done by ANN MARIA JOSE (FIT21MCA-2028) 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.

U	ě	e
Name:		Name:
Date of Univers	sity practical examina	tion
Signature of		Signature of

Signature of Staff in Charge

Internal Examiner

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1		Department of (omputer A	ppications
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Aim: Create a simple html file to demonstrate the use of different tags.

```
< ht.ml>
<head>
<title>
MY NATIVE PLACE
</title>
</head>
<body>
 <h1 align="center">Ernakulam City</h1>
  Ernakulam is a major financial and commercial hub of Kochi
city, which is widely known as the commercial capital of the
state. The Cochin Port, DP World Kochi and Cochin Shipyard have
resulted in the faster growth of the city. The technology park
InfoPark, Kochi and SmartCity, Kochi is on the eastern parts of
the city. Tourism has also contributed heavily to the economy of
Ernakulam and other parts of Kochi like Fort Kochi. The city with
its temples, old churches and its culture, is ranked first in the
number of domestic tourists visiting. Vypin or Vypeen is one of a
group of islands that form part of the city of Kochi, in the
southwestern Indian state of Kerala. Vypin is one of the densely
populated islands in Asia. The western coast of Vypin has the
longest beaches in Kochi namely, the Cherai Beach, Kuzhuppilly
Beach and the Puthuvype Beach.
 <center><imq src="/home/stud/annmaria27/ekm.jpg"height="500"</pre>
width="1500"></center>
 <01>
  Tourist Places in Ernakulam
 Beaches
 <l
  Cherai Beach
 Kuzhuppilly
 puthuvype
 Fort Kochi
 Churches
 <111>
 Santa Cruz Church
 St.Francis Church
 Palace
 Hill palace
 Bolgatty Palace
 <center><img src=" /home/stud/annmaria27/Places-Near-</pre>
Ernakulam.jpg "height="300" width="800"></center>
</body>
</html>
```

Department of Computer Applications Output ← → ℃ ☆ ... ☑ ☆ i file:///home/stud/annmaria27/web/nativeplc.html Tourist Places in Ernakulam 1. Beaches • Cherai Beach • Kuzhuppilly • puthuvype • Fort Kochi 5. Churches • Santa Cruz Church • St. Francis Church 3. Palace • Hill palace • Bolgatty Palace

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

```
Biodata.html
```

```
<html>
<body>
<h1 align="center">BIODATA</h1>
<hr size="5" width=100%" noshade>
 <h3>PERSONAL DETAILS<hr width=100%" noshade></h3>
 <img align="right" height="200" width="200" src="C:\Users\ajin k</pre>
saju\Documents\mca s1\images (1).jpeg" alt="images (1)">
 < h1 >
 Name : Ann Maria Jose 
   Address : Puliyelil House 
   Age : 21  
   Sex : Female  
   Date Of Birth : 10/04/2000 
    Religion : Christian 
    Nationality : Indian </h1> 
   <br/>
<br/>
demic Details</a>
    </body>
    </html>
```

```
biodata2.html
<html>
<body>
<h3 align="center">MY ACADEMIC DETAILS<hr width=100%" noshade></h3>
<h4>SSLC<hr></h4>
Institution
S.A.G.H.S School Kothamangalam 
 Place
Kothamangalam 
 Marks Obtained
84%
<h4>Plus Two<hr width=100%"></h4>
 Institution
Mar Kauma H.S.S 
 Place
Vengoor 
 Marks Obtained
74% 
<h4>UG<hr width=100%" ></h4>
 Institution
 Mar Elias College 
 Place
Kottapady
```



Experiment No: 3 Aim: Create an application form for MCA course in FISAT. Source code <html> <head> <title></title> </head> <body> <center></center> <h2><center>FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY</center></h2> <hr size=5 noshade> <h2><center>Application Form</center></h2> </body> <form> Name:<input type="text" name="name" required>

 Adress:<textarea name= "address" rows="5" cols="25" required></textarea>

 City:<input type="text" name="city" required>

 Pin Code:<input type="text" name="pincode" required>

<br Mobile Number:<input type="number" name="mobile" required>

 Gender:<input type="radio" name="Male" >male <input type="radio" name="Female"> female
</br><
br> Religion:<select> <option>Christian</option>

```
<option>Hindu</option>
     <option>Muslim</option>
    </select> &nbsp;&nbsp;
    Community:<input type="text"required><br><br>
           
    <select>
     <option selected> select</option>
     <option> General
     <option> SC</option>
     <option>ST</option>
     <option>OBC</option>
     <option>OEC</option>
     <option>Others
    </select><br></br>
Father's Details
  
     Name:<input type="text" name="name" required><br><br><br>
          
p;      
     Occupation:<input type="text" name="occup" required><br><br><br
Mother's Details
  
     Name:<input type="text" name="name" required><br><br><br>
         
p;      
     Occupation:<input type="text" name="occup" required><br><br><br
<hr size="4" noshade>
<h3><center>Academic Qualification</center></h3>
Entarance Rank[if avaliable]: <input type="text" name="rank"
required><br><br><br>
```

SSLC Mark[%]: <input name="mark" required="" type="text"/>
Plus Two[%]: <input name="mark" required="" type="text"/> <br< td=""></br<>
Output
(←) → ♂ ♂ ① file:///home/user/Documents/Annmaria27/web/prgm3.html ··· ☑ ☆ 丛 Ⅲ\ 🗈 ⑧
True or Lecture
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
Application Form
Name:
Adress: City:
State:
Pin Code:
Till Gode.

Category select Father's Details Name: Occupation: Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Category select Father's Details Name: Occupation: Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Category select Father's Details Name: Occupation: Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Category select ather's Details Name: Occupation: Occupation: Occupation: Academic Qualification Intarance Rank[if avaliable]:	Category select her's Details Name: Occupation: ther's Details Name: Occupation: Academic Qualification arance Rank[if avaliable]:	Category select c's Details Name: Occupation: Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:	Category select T's Details Name: Occupation: Occupation: Academic Qualification Fance Rank[if avaliable]: Mark[%]:	← → C û î file:///home/user/Documents Religion: Christian ✓ Community:	s/Annmaria27/web/prgm3.html	⊍ ☆	<u>+</u> III\ 11 (
Father's Details Name: Occupation: Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Father's Details Name: Occupation: Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Father's Details Name: Occupation: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Marance Rank[if avaliable]: SLC Mark[%]:	Academic Qualification arance Rank[if avaliable]: CC Mark[%]:	Occupation: Occupation: Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:	occupation: Occupation: Occupation: Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:				
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Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Mother's Details Name: Occupation: Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Occupation: Academic Qualification Interance Rank[if avaliable]: SLC Mark[%]:	Academic Qualification arance Rank[if avaliable]: .C Mark[%]:	Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:	Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:	Father's Details Name:			
Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Intarance Rank[if avaliable]: SLC Mark[%]:	Academic Qualification arance Rank[if avaliable]: .C Mark[%]:	Occupation: Academic Qualification ance Rank[if avaliable]: Mark[%]:	Occupation: Academic Qualification Fance Rank[if avaliable]: Mark[%]:	Occupation:			
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Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Entarance Rank[if avaliable]: SSLC Mark[%]:	Academic Qualification Intarance Rank[if avaliable]: SLC Mark[%]:	Academic Qualification arance Rank[if avaliable]: .C Mark[%]:	Academic Qualification ance Rank[if avaliable]: Mark[%]:	Academic Qualification Tance Rank[if avaliable]: Mark[%]:	Mother's Details Traine.			
Entarance Rank[if avaliable]: SSLC Mark[%]:	Entarance Rank[if avaliable]: SSLC Mark[%]:	Entarance Rank[if avaliable]: SSLC Mark[%]:	ntarance Rank[if avaliable]: SLC Mark[%]:	arance Rank[if avaliable]: .C Mark[%]:	mark[%]:	Mark[%]:	Occupation:			
Entarance Rank[if avaliable]: SSLC Mark[%]:	Entarance Rank[if avaliable]: SSLC Mark[%]:	Entarance Rank[if avaliable]: SSLC Mark[%]:	ntarance Rank[if avaliable]: SLC Mark[%]:	arance Rank[if avaliable]: .C Mark[%]:	mark[%]:	Mark[%]:				
SSLC Mark[%]:	SSLC Mark[%]:	SSLC Mark[%]:	SLC Mark[%]:	C Mark[%]:	Mark[%]:	Mark[%]:		ndemic Qualification		
							Entarance Rank[if avaliable]:			
Plus Two[%]:	Plus Two[%]:	Plus Two[%]:	lus Two[%]:	s Two[%]:	Pivo[%]:	Two[%]:	SSLC Mark[%]:			
							Plus Two[%]:			

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

```
course.html
<html>
<head><title></title></head>
<body>
<h4>Department of computer science and engineering</h4>
Programe 
duration
B.Tech in Computer Science & Engineering (CSE) 
4 yrs
 B.Tech in Computer Science & Design 
4 yrs
 M.Tech in Computer Science & Information Systems (CSIS) 
2 yrs
<h4>Department of electronics and communication</h4>
```

```
Programe 
duration
 B.Tech in Electronics & Communication Engineering (ECE) 
4 yrs
 M.Tech in VLSI & Embedded Systems 
2 yrs
 M.Tech in Automotive Electronics 
2 yrs
</body>
</html>
frame.html
<html>
<head>
<title>Frames</title>
<head>
<frameset rows="30%,*">
<frame name="top" src="profile.html">
<frameset cols="140,*">
<frame name="navF" src="navigation.html">
<frame name="mainF" src="intro.html">
```

Department of Computer Applications </frameset> </frameset> <body> Infrastructure.html <html> <head> <title></title> <head> <h1>infrastructure</h2> <body> Infrastructure The infrastructure facilities of FISAT are tailored to support holistic education with emphasis on sustainability. The master plan of FISAT envisages a three storeyed main building consisting of a central block with college office, central library, main computer centre, office of the principal, conference hall, spacious seminar halls, etc housed in it and the major building complexes on the side accommodates classrooms, drawing halls, tutorial halls, departmental offices, libraries, and computer centres. The central block of the institution is constructed in an eco-friendly manner without obstructing the flow of a natural stream.

The classrooms are well ordered and spacious with latest audio-visual aids and wifi facility. FISAT Library is the soul of the institution and it acquires, processes, preserves and disseminates information to the user community with the motto of focus on excellence. It has an extensive collection of books, reference materials for satisfying the academic and research needs of the students and faculty. FISAT Library and Information Centre consists of a reference section, circulation section and periodical section. The library has automated all its activities to provide an effective and wide range of academic resources such as books, journals, online databases.

</html>

Into.html <html> <head><title>FISAT</title></head> <body align="center"> <center> <h1> Federal Institute Of Science Technology</h1> </center> </body> </html> Navigation.html <html><head><title>Navigation Bar</title></head> <body><center> HOME

 COURSE

 PROFILE
 </center></body> </html> Profile.html <html> <head> <title></title> <head> <h1>Pofile</h2> <body> The College Federal Institute of Science And Technology (FISAT) is a private self financing Engineering College, established and run by the Federal Bank Officers` Association Educational Society

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

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

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

<iframe src="infrastructure.html" width="800" height="400"algin="center"></iframe>

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

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

</html>

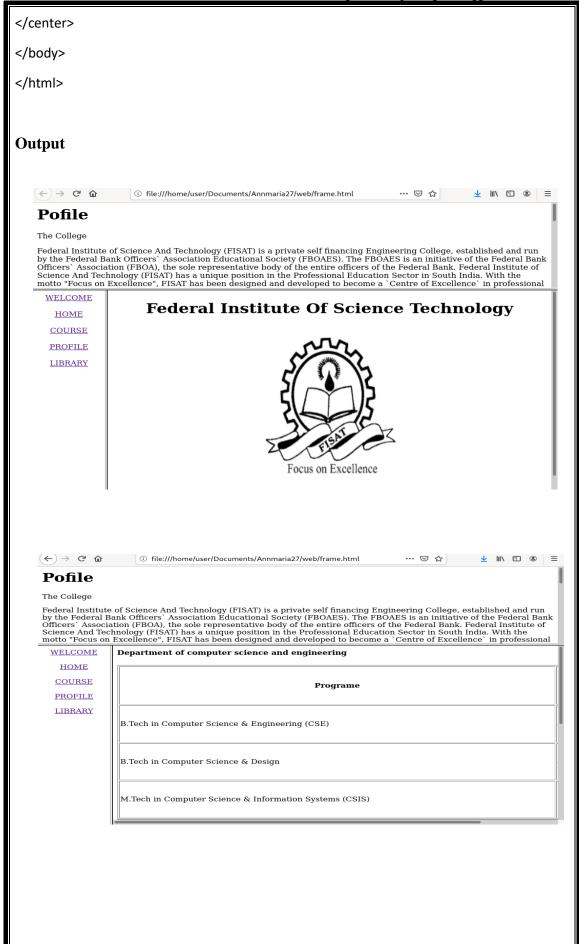
Welcome.html

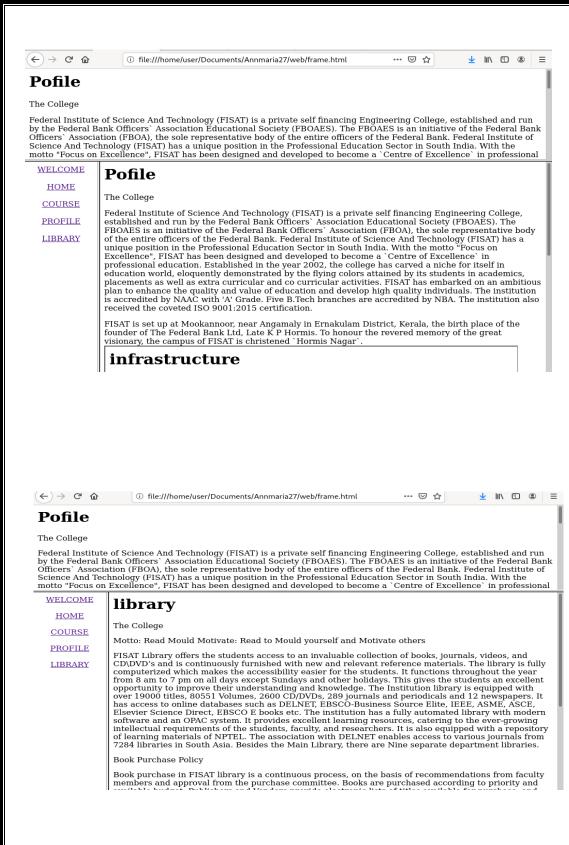
<html>

<head><title>welcome/title></head>

<body>

<center>





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

```
prgm5.html
<html>
<head>
<title>register</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<form method="" action="">
<caption>
<h1><center>REGISTRATION FORM</center>
</caption></h1>
Enter your first name
<input type="text" name="fn" id="fn1" maxlength="10"/>
Enter your last name
<input type="text"/>
Enter your password
<input type="password"/>
ReEnter your password
<input type="password"/>
Enter your email
Enter your mobile
<input type="number"/>
Enter your address
```

```
<textarea rows="8" cols="20"></textarea>
Select your gendermale<input type="radio" name="g"
value="m"/>female<input type="radio" name="g" value="f"/>
Qualification
MCA<input type="checkbox" name="x[]" value="h"/>BCA<input type="checkbox"
name="x[]" value="h2"/>
Select your DOB
<input type="date"/>
Select your Country
<select name="country"><option value="" selected="selected"
disabled="disabled">Select your country</option>
<option value="1">India<option><option</pre>
value="2">UAE</option></select>Upload your pic<input
type="file"/>
</form>
<input type="submit" name="send" value="Send"> <input type="reset" name="clear"
value="Clear">
</body>
</html>
style.css
body{
background-color:orange;
color:cyan;
h1{
font-size:36;
color:cyan;
th{
```

fon	t-size:20px;		
cole	or:blue;		
}			
Ou	tput		
	← → ♂ ☆	① file:///home/user/Documents/Annmaria27/web/prgm5.html	<u> </u>
		REGISTRATION FORM	
	Enter your first name		
	Enter your last name		
	Enter your		
1	password ReEnter		
	your password		
	Enter your		
	email Enter your		
	mobile	<u> </u>	
	Enter your address		
	Calast warm		
	gender	ale Ofemale O	
	Qualification M Select your	CA BCA	
	gender	male Ufemale U	
	Qualification	IMCA □BCA □	
	Select your DOB		
	Select your Country	Select your country 🕶	
	Upload your pic	Browse No file selected.	
	Send Clea		

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

```
Source code
<!DOCTYPE html>
<html><head>
<script>
function validateForm() {
var a = document.forms["myForm"]["fname"].value;
if (a == "") {
alert("Name must be filled out");
return false;
var b = document.forms["myForm"]["add"].value;
if (b == "") {
alert("Address must be filled out");
return false;
var d = document.forms["myForm"]["city"].value;
if (d == "") {
alert("City must be filled out");
return false;
var e = document.forms["myForm"]["state"].value;
if (e == "") {
alert("State must be filled out");
return false;
var f = document.forms["myForm"]["country"].value;
if (f == "") {
alert("Country must be filled out");
return false;
```

```
var g = document.forms["myForm"]["pin"].value;
if (g == "") {
alert("Pin code must be filled out");
return false;
var h = document.forms["myForm"]["mob"].value;
if (h == "") {
alert("Mobile must be filled out");
return false;
var i = document.forms["myForm"]["mail"].value;
if (i == "") {
alert("Mail must be filled out");
return false;
var\ j = document.forms["myForm"]["dob"].value;
if (j == "") {
alert("DOB must be filled out");
return false;
</script>
<style>
   label {
     display: inline-block;
     width: 300px;
</style>
</head>
<body>
```

```
<center><img src="download.png"></center><br>
<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>
<hr size=5 noshade></hr>
<h2><center><u>Application Form</u></center></h4><br>
<form name="myForm" action="/action page post.php"</pre>
onsubmit="return validateForm()" method="post">
<label>Name</label>
<input type="text" name="fname"><br><br><br><br>
<label>Permanent Address/label>
<textarea cols="20" rows="3" name="add"></textarea><br><br><br>
<label>City</label>
<input type="text" name="city" ><br><br><br>
<label>State</label>
<input type="text" name="state"><br><br><br>
<label>Country</label>
<input type="text" name="country"><br><br><br>
<label>Pincode</label>
<input type="text" name="pin"><br><br><br>
<label>Mobile</label>
<input type="number" name="mob"><br><br><br>
<label>Email</label>
<input type="email" name="mail"><br><br><br>
<label>Date of birth </label>
<input type="date" name="dob"><br><br><br>
<center><input type="submit" value="Submit"></center>
</form>
</body>
</html>
```



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 to Uppercase, toLowercase, concat, trim, charAt, convert string to arrayindexof, search,includes). (Math Functions- round, ceil, floor, trunc, sign, pow, sqrt, abs, sin, cos, min, max, random, log)

```
<html>
<body>
<h2>JavaScript String Properties</h2>
The length property returns the length of a
string:ABCDEFGHIJKLMNOPQRSTUVWXYZ
<script>
let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
document.getElementById("demo").innerHTML = text.length;
</script>
<hr>
The slice() method extract a part of a string
and returns the extracted parts in a new string:lotus, marigold, daffodils
<script>
let str = "lotus, marigold, daffodils";
document.getElementById("de").innerHTML = str.slice(7,13);
```

```
</script>
<hr>
The substring() method extract a part of a string and returns the extracted parts in a new
string:Tulips, lotus, lavenders
<script>
let str1 = "Tulips, lotus, lavenders";
document.getElementById("dem").innerHTML = str1.substring(7,13);
</script>
<hr>
The substr() method extract a part of a string and returns the extracted parts in a new
string:Tulips, lotus, lavenders
<script>
let str2 = "Tulips, lotus, lavenders";
document.getElementById("demo1").innerHTML = str2.substr(7,6);
</script>
<hr>
Replace "Beautifull with wonderfull" in the paragraph below:
<button onclick="myFunction1()">Try it</button>
This place is Beautifull.!!
<script>
function myFunction1() {
let text1 = document.getElementById("demo2").innerHTML;
document.getElementById("demo2").innerHTML =
```

```
text1.replace("Beautifull","wonderfull");
</script>
<hr>
Convert string to upper case:Hello World!
<button onclick="myFunction2()">Try it</button>
Have a nice day!
<script>
function myFunction2() {
let text2 = document.getElementById("demo3").innerHTML;
document.getElementById("demo3").innerHTML =
text2.toUpperCase();
</script>
<hr>
Convert string to lower case:Hello World!
<button onclick="myFunction3()">Try it</button>
HAVE A NICE DAY!
<script>
function myFunction3() {
let text3 = document.getElementById("demo4").innerHTML;
document.getElementById("demo4").innerHTML =
text3.toLowerCase();
</script>
```

```
<hr>
The concat() method joins two or more strings:Hello,World!
<script>
let text4 = "Hello";
let text5 = "World!";
let text6 = text4.concat(" ",text5);
document.getElementById("demo5").innerHTML = text6;
</script>
<hr>
The trim() Method
<script>
let text7 = " Hello World! ";
let text8 = text7.trim();
document.getElementById("demo6").innerHTML =
"Length text7=" + text7.length + "<br>Length8 text8=" + text8.length;
</script>
<hr>
The charAt() method returns the character at a given position in a string:
<script>
var text9 = "HELLO WORLD";
document.getElementById("demo7").innerHTML = text9.charAt(0);
</script>
```

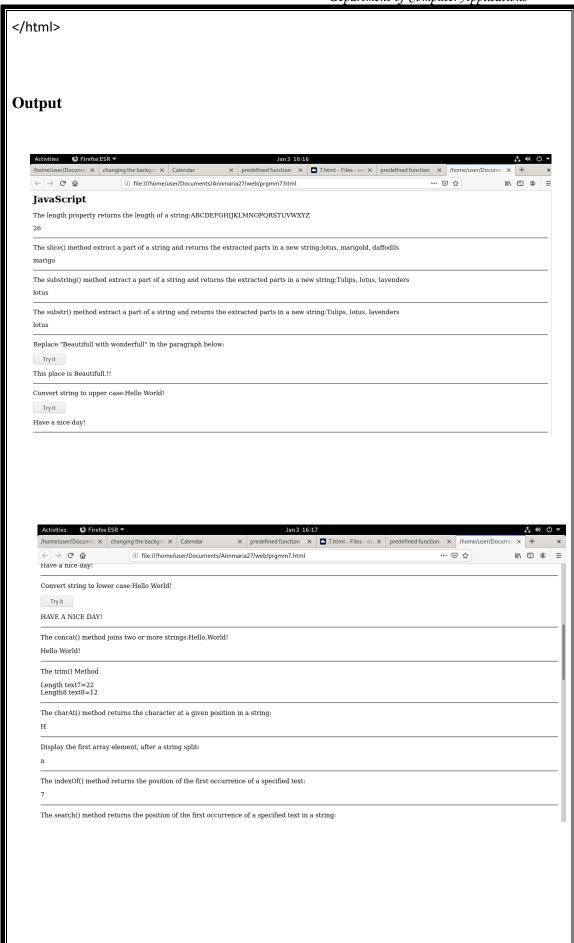
```
<hr>
Display the first array element, after a string split:
<script>
let text10 = "a,b,c,d,e,f";
const myArray = text10.split(",");
document.getElementById("demo8").innerHTML = myArray[0];
</script>
<hr>
The indexOf() method returns the position of the first occurrence of a specified text:
<script>
let str3 = "Please locate where 'locate' occurs!";
document.getElementById("demo9").innerHTML = str3.indexOf("locate");
</script>
<hr>
The search() method returns the position of the first occurrence of a specified text in a
string:
<script>
let str4 = "Please locate where 'locate' occurs!";
document.getElementById("demo10").innerHTML = str4.search("locate");
</script>
<hr>
Check if a string includes "world":
```

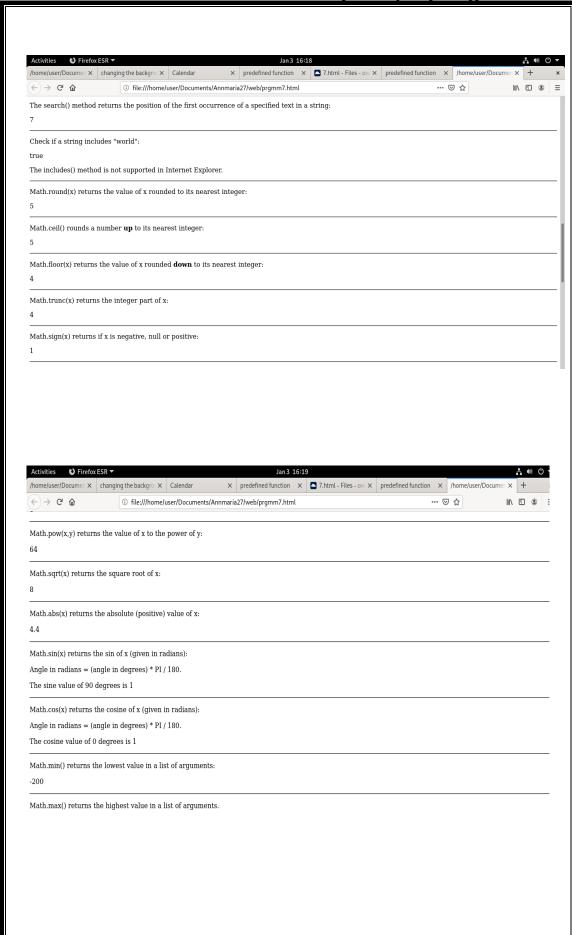
```
The includes() method is not supported in Internet Explorer.
<script>
let text11 = "Hai all, welcome to th world of programmers.";
document.getElementById("demo11").innerHTML = text11.includes("world");
</script>
<hr>
Math.round(x) returns the value of x rounded to its nearest integer:
<script>
document.getElementById("demo12").innerHTML = Math.round(4.5);
</script>
<hr>
Math.ceil() rounds a number <strong>up</strong> to its nearest integer:
<script>
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
</script>
<hr>
Math.floor(x) returns the value of x rounded <strong>down</strong> to its nearest
integer:
<script>
document.getElementById("demo14").innerHTML = Math.floor(4.7);
</script>
```

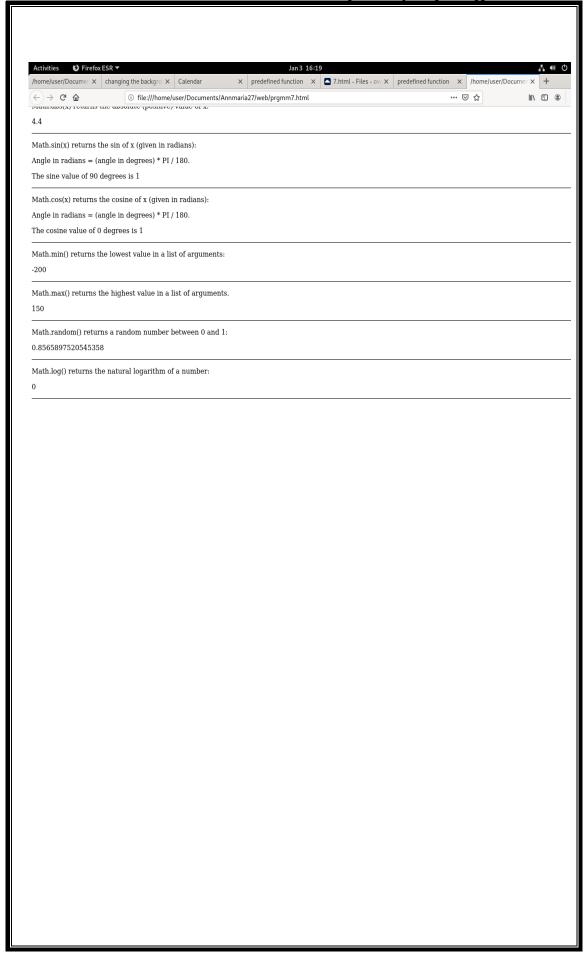
```
<hr>
Math.trunc(x) returns the integer part of x:
<script>
document.getElementById("demo15").innerHTML = Math.trunc(4.7);
</script>
<hr>
Math.sign(x) returns if x is negative, null or positive:
<script>
document.getElementById("demo16").innerHTML = Math.sign(4);
</script>
<hr>
Math.pow(x,y) returns the value of x to the power of y:
<script>
document.getElementById("demo17").innerHTML = Math.pow(8,2);
</script>
<hr>
Math.sqrt(x) returns the square root of x:
<script>
document.getElementById("demo18").innerHTML = Math.sqrt(64);
</script>
```

```
<hr>
Math.abs(x) returns the absolute (positive) value of x:
<script>
document.getElementById("demo19").innerHTML = Math.abs(-4.4);
</script>
<hr>
Math.sin(x) returns the sin of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
<script>
document.getElementById("demo20").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
</script>
<hr>
Math.cos(x) returns the cosine of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
<script>
document.getElementById("demo21").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
</script>
<hr>
Math.min() returns the lowest value in a list of arguments:
```

```
<script>
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
<hr>
Math.max() returns the highest value in a list of arguments.
<script>
document.getElementById("demo23").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>
<hr>
Math.random() returns a random number between 0 and 1:
<script>
document.getElementById("demo24").innerHTML = Math.random();
</script>
<hr>
Math.log() returns the natural logarithm of a number:
<script>
document.getElementById("demo25").innerHTML = Math.log(1);
</script>
<hr>
</body>
```

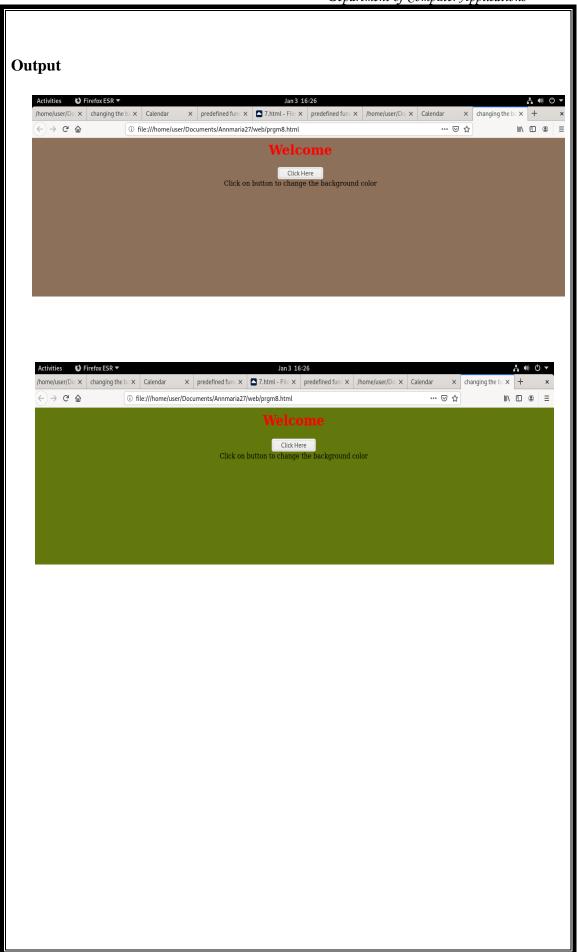






Aim: Create a HTML page to change the background color for every click of a button using JavaScript Event Handling.

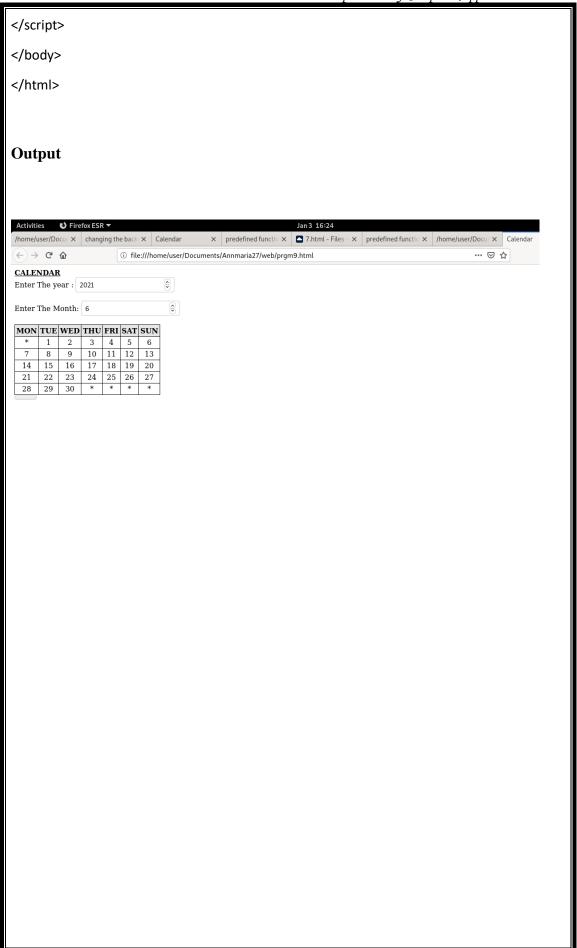
```
<html>
<head>
<title>
changing the background colors
</title>
</head>
<body style = "text-align:center;">
<h1 style = "color:red;" >
Welcome
</h1>
<button type="button" align="center" id="color-button" onclick="changeBg()">Click
Here
</button>
<br>
<script>
document.writeln( "Click on button to change 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>
```



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

```
<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><br>>
<div id="calendar"></div>
<button onclick=>
<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 =
'MONTUEWEDTHUFRISAT
SUN';
for (let i = 0; i < getDay(d); i++) {
table += '*';
while (d.getMonth() == mon) {
table += '' + d.getDate() + '';
if (getDay(d) \% 7 == 6) {
table += '';
d.setDate(d.getDate() + 1);
if (getDay(d) != 0) {
for (let i = getDay(d); i < 7; i++) {
table += '*';
table += '';
elem.innerHTML = table;
createCalendar(calendar, year, month);
```



Experiment No:10 Aim: Compose Electricity bill from user input based on a given tariff using PHP. Source code Electricity.html <html> <head><title>Electricity Bill</title></head> <body> <form align="left" name="bill" action="http://localhost/~user/elec.php" method="post"> <fort color="black"> <h1>Electricity Board</h1> <hr noshade> Customer name: <input type="text" name="uname">

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

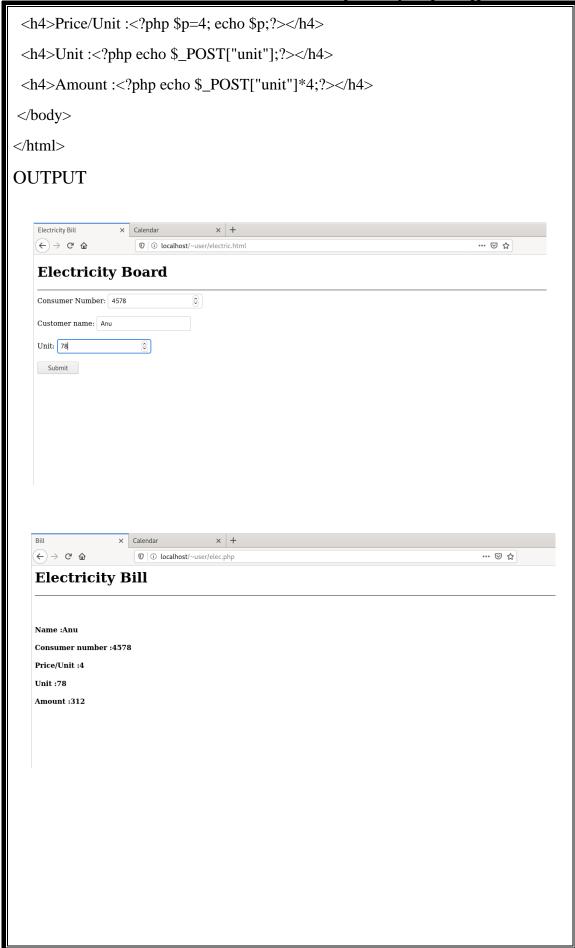
> <input type="submit" value="Submit"> </form> elec.php <html> <head><title>Bill</title></head> <body> <h1>Electricity Bill</h1>

<h4>Name :<?php echo \$_POST["uname"];?></h4>

<h4>Consumer number :<?php echo \$_POST["cno"];?></h4>

<hr noshade>

>
>



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

```
P11.html
```

```
<!DOCTYPE html>
<html>
<body>
<h2>Students Name: </h2>
<?php
$a = array("Angel"=>"34", "Maria"=>"30",
"Deepa"=>"25","Anu"=>"11","Anju"=>"9");
print_r($a);
echo "<h2>Ascending Order</h2>";
echo "\n";
asort($a);
foreach(a s x=>x value)
echo "Key=" . $x . ", Value=" . $x value;
echo "<br>";
echo "\n";
echo "<h2>Descending Order</h2>";
echo "\n";
arsort($a);
foreach(as x=>x value)
echo "Key=" . $x . ", Value=" . $x_value;
echo "<br>";
?>
```

Output	
localhost/~user/prgmm11.pl ×	+
← → G ⊕	🛈 🛈 localhost/~user/prgmm11.php
Students Name:	
Array ([Angel] => 34 [Ma	ria] => 30 [Deepa] => 25 [Anu] => 11 [Anju] => 9)
Ascending Order	r
Key=Anju, Value=9 Key=Anu, Value=11 Key=Deepa, Value=25 Key=Maria, Value=30 Key=Angel, Value=34	
Descending Ord	er
Key=Angel, Value=34 Key=Maria, Value=30 Key=Deepa, Value=25 Key=Anu, Value=11 Key=Anju, Value=9	

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

```
<!DOCTYPE html>
<html>
<body>
<?php
$Indcricketers= array("Virat Kohli", "Sourav Ganguly", "Virender Sehwag"); echo
"Indian Cricketers: ".
$Indcricketers[0].", ". $Indcricketers[1]." and". $Indcricketers[2]."."; echo
"<h3>INDIAN
CRICKETERS</h3>
<th>NO</th>
NAMES
1
Virat Kohli
2
Sourav Ganguly
3
Virender Sehwag
";
?>
</body>
```

Output	
•	
localhost/~user/prgm12.php ×	+
← → C û	localhost/~user/prgm12.php
	nli, Sourav Ganguly andVirender Sehwag.
INDIAN CRICKETERS	
	•
NO NAMES 1 Virat Kohli	
2 Sourav Ganguly	
3 Virender Sehwag	

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

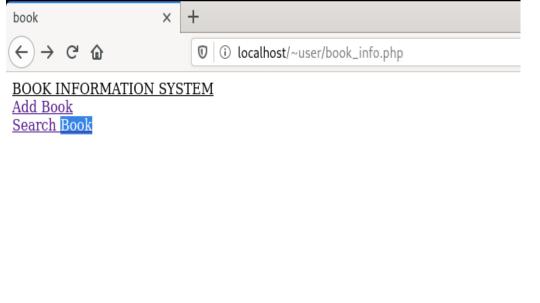
```
Book_info.html
<html>
<head>
<title>book</title>
</head>
<body align="center"><u>BOOK INFORMATION SYSTEM</u><br><br/>br>
<a href="add_book.html">Add Book</a><br><br>
<a href="search.html">Search Book</a><br><br>
</body>
</html>
Add book.html
<html><head>
<title>add book</title>
<style>
   label {
    display: inline-block;
    width: 300px;
   }
  </style
</head>
<body>
<form name="frm1" action="addl.php" method="POST">
<b><u>Enter Book Details</u></b><br><br>
```

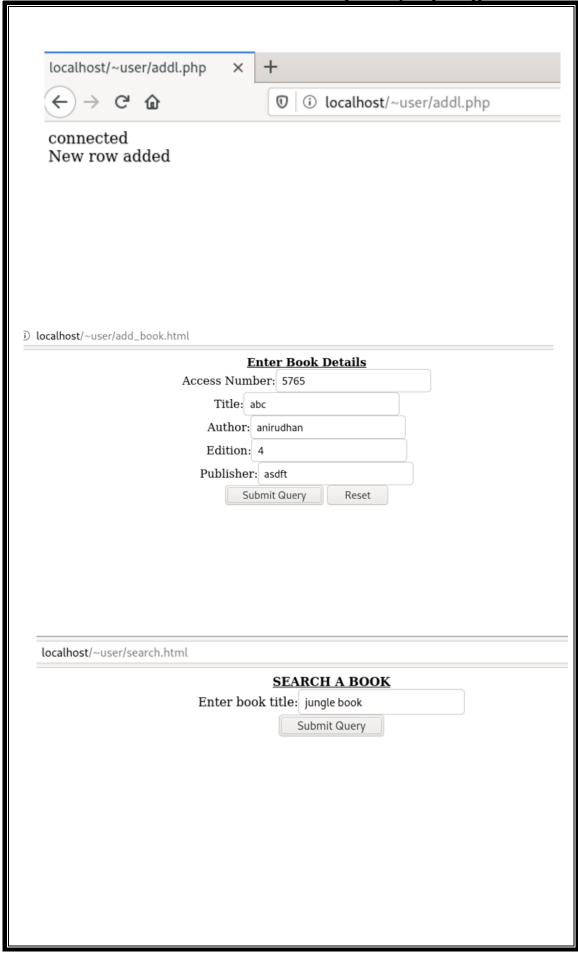
```
<label>Accession Number</label>
<input type="text" name="num"><br><br>
<label>Title:</label><input type="text" name="tit"><br><br>
<label>Author:</label><input type="text" name="author"><br><br>
<label>Edition:</label><input type="text" name="edi"><br><br>
<label>Publisher:</label><input type="text" name="pub"><br><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'];
$con=new mysqli("localhost","fisat","fisatdb");
if($con==false)
echo "Failed to connect";
else
echo "connected";
```

```
$sql="INSERT INTO book678 VALUES($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>
<style>
   label {
    display: inline-block;
    width: 300px;
  </style
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH A BOOK</u></b><br><br>
```

```
<label>Enter book title:</label>
<input type="text" name="txt"><br><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";
$sql="select * from book678 where Title='$title'";
if($result=$con->query($sql))
if($result->num_rows>0)
```

```
Department of Computer Applications
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
                           Х
                                 (info.php) (info.php)
        → C û
```





localhost/~user/searchl.php X + **1 (i) localhost**/~user/searchl.php connected 234:jungle book:anirudh:7:asdf user@debian:~/Documents/Annmaria27/web\$ mysql -u fisat -p Enter password: Welcome to the MariaDB monitor. Commands end with ; or \g. Your MariaDB connection id is 51 Server version: 10.5.11-MariaDB-1 Debian 11 Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others. Type 'help;' or '\h' for help. Type '\c' to clear the current input statement. MariaDB [(none)]> use fisatdb Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A Database changed MariaDB [fisatdb]> create table book678(accessnumber int,title varchar(20),auth r varchar(20),edition int,publisher varchar(20)); Query OK, 0 rows affected (0.138 sec) MariaDB [fisatdb]> select * from book678; |+-----| accessnumber | title | author | edition | publisher | +----+ 234 | jungle book | anirudh | 7 | asdf | 789 | Tiger | tyu | 6 | athirang | 5765 | abc | anirudhan | 4 | asdft | |+-----3 rows in set (0.000 sec) MariaDB [fisatdb]>

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

```
Source code
Airline.html
<html>
<head>
<title>Airline</title>
</head>
<body align="center"><u>AIRLINE SYSTEM</u><br><br>
<a href="add.html">Add Airline</a><br><br>
<a href="search.html">Search Airline</a><br>
</body>
</html>
Add.html
<html><head>
<title>Airline details</title></head>
<style>
   label {
    display: inline-block;
    width: 300px;
  </style>
<body>
```

```
<form name="frm1" action="addl.php" method="POST">
<b><u>Enter Airline Details</u></b><br><br>
<label>Airline Number:</label>
<input type="number" name="num"><br></b><br>
<label>Name:</label>
<input type="text" name="name"><br></b><br>
<label>Source:</label>
<input type="text" name="src"><br></b><br>
<label>Destination:</label><input type="text" name="dstn"><br></b><br>
<label>Date:</label><input type="date" name="date"><br></b><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
Addl.php
<?php
$num=$_POST['num'];
$name=$_POST['name'];
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$date=$_POST['date'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
```

```
echo "Failed to connect\n";
else
echo "connected\n";
$sql="INSERT INTO airline VALUES($num,'$name','$src','$dstn','$date')";
if($con->query($sql))
echo "<BR>";
echo "New row added\n";
else
echo "ERROR:could not execute query";
$con->close();
?>
Search.html
<html>
<head>
<title>search</title>
<style>
```

```
label {
    display: inline-block;
    width: 300px;
  </style>
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH AIRLINE</u></b><br><br>
<label>Enter Source:</label>
<input type="text" name="src"><br><br>
<label>Enter Destination:</label>
<input type="text" name="dstn"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
Searchl.php
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisatdb");
if($con==false)
```

```
echo "Failed to connect";
else
echo "connected\n";
$sql="select * from airline where Source='$src' and Destination='$dstn'";
if($result=$con->query($sql))
if($result->num_rows>0)
while($row=$result->fetch_array())
 \{ echo "\n".\$row[0].":".\$row[1].":".\$row[2].":".\$row[3].":". \\
 \text{srow}[4]."\n\n";}
$result->close();
else
echo "\nCould not found the book";
else
```

echo "\nError:could not connect";					
}					
\$con->close();					
?>					
Output					
o aspair					
Airline details X Airlin	ne details × +				
← → ♂ ☆ □					
Enter Airline Details					
Airline Number:	1				
Name:	jeeva				
Source:	kannur				
	Kalliul				
Destination:	mumbai				
Date:	12 / 04 / 2022 🚳				
Submit Query Reset					
localhost/~user/P14/addl.ph ×	Airline details × +				
← → C û localhost/~user/P14/addl.					
connected					
New row added					

← → ♂ 硷 SEARCH AIRLINE Enter Source:	C) i loca	lhost/~user/P14/s	earch.hti	ml	
Enter Source:						
	k	kannur				
Enter Destination:			mumbai			
		Ċ	Tidirine di			
Submit Query						
localhost/~user/P14/sea	archi V	Airline de	ataile	×	+	
	il Citic A					
←) → C!		0	localhost/~user	/P14/se	archl.ph	
MariaDB [fisatdb]> airline_no name	e sc	ource	airline; destination 		 	
5 Athul ko		ochi	uk 2022		-03-22 -03-28 -04-12	
1]cc.	+	+ -				
	00 sec)					
3 rows in set (0.00	00 sec)					
	90 sec)					