

WEB AND INTERNET TECHNOLOGIES LABORATORY MANUAL

Department of Computer Science and Engineering

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15A05609 WEB AND INTERNET TECHNOLOGIES LABORATORY

Course Objectives:

- To introduce client side scripting with Javascript and DHTML
- To introduce server side programming with Java servlets, JSP and PHP.
- To learn the basic web concepts and Internet protocols
- Course Outcomes:
- Ability to create dynamic and interactive web sites.
- Gain knowledge of client side scripting using java script and DHTML.
- Demonstrate understanding of what is XML and how to parse and use XML data
- Able to do server side programming with Java Servlets, JSP and PHP.

CYCLE 1

1. To create a simple student bio-data form using html5 . it should contain the following name (text box), address (multiline text box),gender (radio button male,female),skill sets known (check boxes – c,c++,java,C#etc), extra curricular activities (text box), nationality (combobox) ,submit and reset button.
2. To create an html page with different types of frames such as floating frame, navigation frame & mixed frame.
3. Design the webpage by applying the different styles using inline, external & internal style sheets.
4. Write a java script program to read .XML file and display data in a neat format.
5. To write a Javascript program to define a user defined function for sorting the values in an array. Use HTML5 for user interface.
6. To create an html page to demonstrate exception handling in javascript Create an html page named as —exception.html and do the following.
 - i. within the script tag write code to handle exception
 - a) define a method RunTest() to get any string values(str) from the user and call the method Areletters(str).
 - b) In Areletters(str) method check whether str contain only alphabets (a-z, AZ), if not throw exception.
 - c) Define a exception method Input Exception(str) to handle the exception thrown by the above method.
 - ii. Within the body tag define a script tag to call Runtest() method define.
7. Write a jsp servlet program to implement the single text field calculator.
8. Write a jsp servlet program to demonstrate session handling using
 - url rewriting
 - hidden formfield
 - cookies
 - sessions
9. To create a php program to demonstrate the different predefined function in array, Math, Data & Regular Expression.

Procedure:

 - Create php file named as Regularexpression.php
 - for demonstrating the method for handling various strings with regular expression Array.php
 - for demonstrating the methods for handling the array values Math_function.php
 - to demonstrate the predefined in math objects. Date_time.php to demonstrate the predefined function in date subject
10. Write a program in PHP for a simple email processing with attachment using forms
11. Write a program for PHP for a login script ; create a login database and store username and password

PROGRAM – 1

1. To create a simple student bio-data form using html5 . it should contain the following name (text box), address (multiline text box),gender (radio button male,female),skill sets known (check boxes – c,c++,java,C#etc), extra curricular activities (text box), nationality (combobox) ,submit and reset button.

```
<html>
<body>
<form>
  Name <br/>
  <input type="text" size="30" value="ABC">
  <br/><br/>
  Password <br/>
  <input type="password" >
  <br/><br/>
  Phone<br/>
  <input type="tel" name="Phone" maxlength="10">
  <br/><br/>
  Gender
  <input type="radio" name="gender" value="M" checked>Male
  <input type="radio" name="gender" value="F">Female
  <br/><br/>
  Languages known
  <input type="checkbox">Telugu
  <input type="checkbox" checked>English
  <input type="checkbox">Hindi
  <br/><br/>
  Education
  <Select>
  <option>Graduation</option>
  <option selected>Post Graduation</option>
  </Select>
  <br/><br/>
  skills
  <input type="checkbox">C
  <input type="checkbox" checked>C++
  <input type="checkbox">JAVA
  <br>
  <br>
  Address <br/>
  <textarea rows="5" cols="30" style="resize: none;"></textarea>
  <br/><br/>
  Nationality
  <Select>
  <option>Indian</option>
  <option selected>Other</option>
  </Select>
  <br>
  <br>
  Extra curricular activities <br/>
  <textarea rows="5" cols="30" > </textarea>
  <br/><br/>
  Image<br/>
```

```
<input type="file">
```

```
<br/><br/>
```

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

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

```
</form>
```

```
</body>
```

```
</html>
```

The screenshot shows a web browser window titled "C:\Users\admin\Desktop\1.HTML - Windows Internet Explorer". The address bar shows the file path: "file:///C:/Users/admin/Desktop/1.HTML?Phone=3453453&gender=M". The browser's Favorites bar includes "Favorites", "Suggested Sites", and "Web Slice Gallery". The main content area displays a form with the following fields and options:

- Name:** Text input field containing "sambasiva".
- Password:** Password input field with 10 dots.
- Phone:** Text input field containing "9989793941".
- Gender:** Radio buttons for "Male" (selected) and "Female".
- Languages known:** Checkboxes for "Telugu" (checked), "English" (checked), and "Hindi" (unchecked).
- Education:** Dropdown menu showing "Post Graduation".
- skills:** Checkboxes for "C" (checked), "C++" (unchecked), and "JAVA" (unchecked).
- Address:** Text area containing "kotha kandriga, srikalahasti".
- Nationality:** Dropdown menu showing "Indian".
- Extra curricular activities:** Text area containing "watching cartoons".
- Image:** Text input field containing "C:\Users\Public\Pictures" and a "Browse..." button.

At the bottom of the form, there are two buttons: "Reset" and "Submit Form". The Windows taskbar at the bottom shows icons for Internet Explorer, File Explorer, Windows Media Center, Windows Defender, Google Chrome, Microsoft Word, and a folder icon.

PROGRAM – 2

2. To create an html page with different types of frames such as floating frame, navigation frame & mixed frame.

Procedure-

- Create an html page named as mixedframe.html. Divide the page into 2 columns of 25% and 75% size. In 25% display the image file and divide the 75% into 2 rows(50% and 50%). In the first 50% display the other images
- Create an html page named as navigationframe.html. divide the page into 2 columns of 25%, 75% size. In 25% size call the hyperlink file and make the page to be get displayed on the other column when the link is clicked.
- Create an html page named as floatingframe.html. In this file include a paragraph to explain floating frame and in floating frame include any html file created in above experiment.

File name:CSE.html

```
<html>
<body>
<a href="frames.html" target="two">navigation frame</a><br>
<a href="floatingframe.html" target="two">floating frame</a><br>
<a href="mixedframe.html" target="two">mixed frame</a><br>
</body>
</html>
```

File name: frames.html

```
<html>
<frameset cols="25%,*" scrolling="no" noresize>
<frame name="one"></frame>
<frame name="two"></frame>
</frameset>
</html>
```

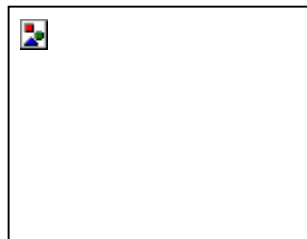
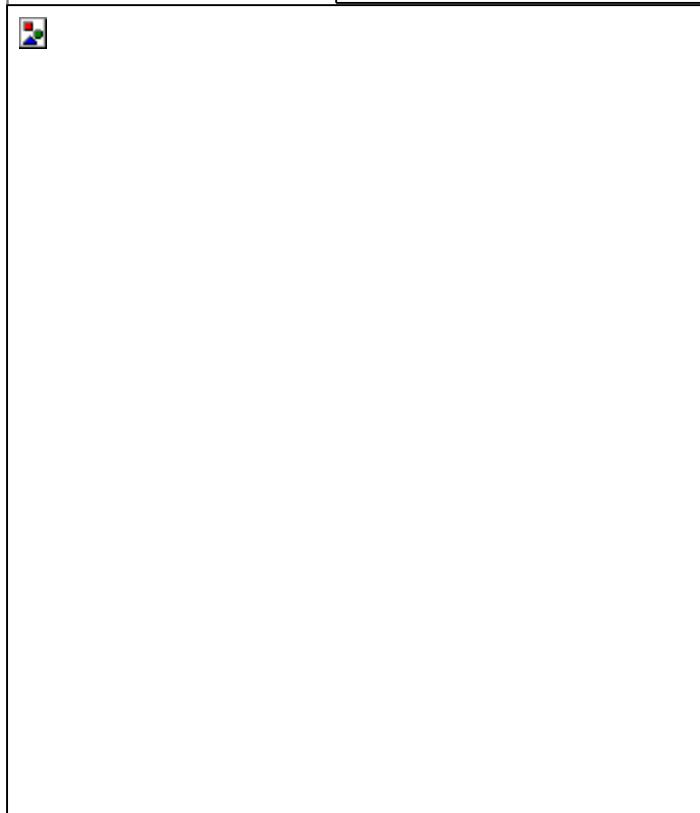
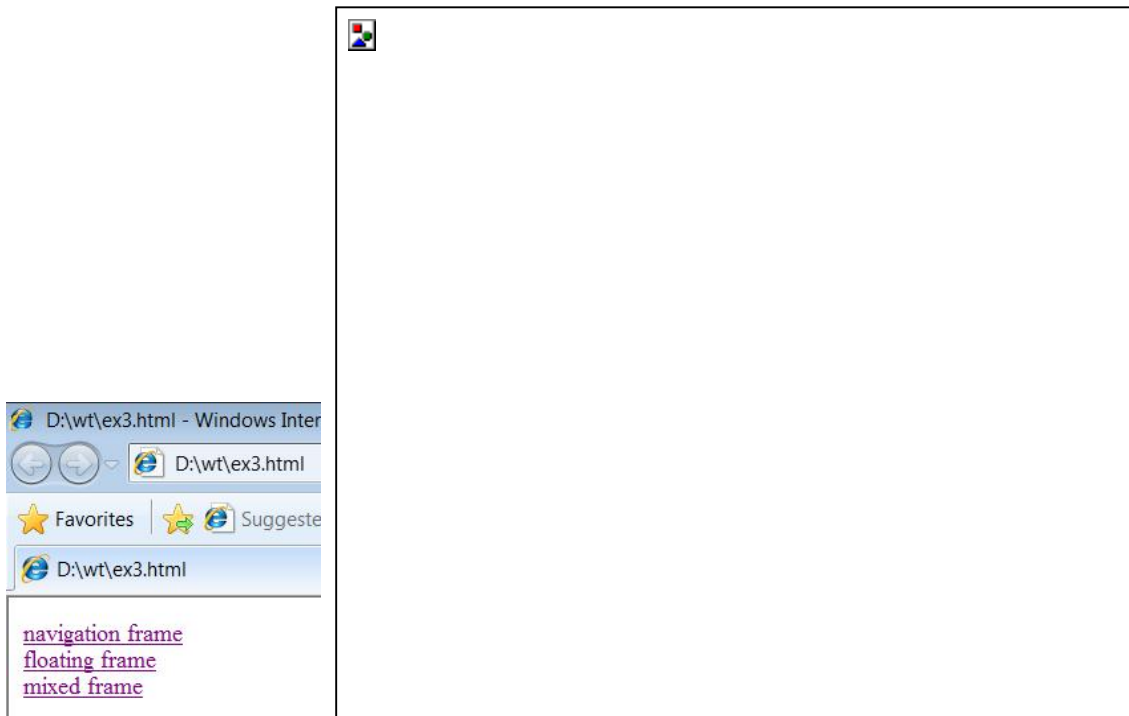
File name: floatingframe.html

```
<html>
<head>
<title>floatingframe</title></head>
<body>
hello<br>
<p>this page contains floatingframes </p>
</html>
```

File name: mixedframe.html

```
<html>
<frameset cols="25%,*" scrolling="no" noresize>
<frame name="image1" src="Desert.jpg"></frame>
<frameset rows="50%,*" scrolling="no" noresize>
<frame name="image2" src="Tulips.jpg"></frame>
<frame name="image3" src="Penguins.jpg"></frame>
</frameset>
</html>
```

Output:



PROGRAM – 3

3. Design the webpage by applying the different styles using inline, external & internal style sheets.

Inline CSS Style:

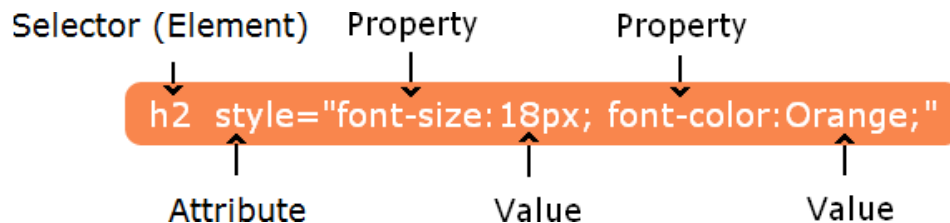
Inline CSS Style write in element line using style attribute. All most every html element support styleattribute.

Inline stylesheet priority high more than other three. Inline CSS style consists set of rules in 4 part:

1. Selector (Element)
2. Style (Attribute)
3. Property and
4. Value

How to write Inline CSS Style

Selector is normally HTML element that element you want to assign CSS style. And style is attribute to assign CSS property and set suitable value.



“Inline.html”

>

Output: <html>

<head>

<title>inline</title></head>

<body>

<p style="color:purple;margin-left:20px;">This is a paragraph line. </p>

<div style="color:purple;font-size:16px;background-color:#FF6633;">

This is a paragraph Second line.</p>

</body>

</html>



Internal CSS Style

Internal CSS Style includes within webpage using <style type="text/css"> </style> element and between this element CSS style properties are listed. Internal CSS style normally written within <head> </head> element of the webpage.

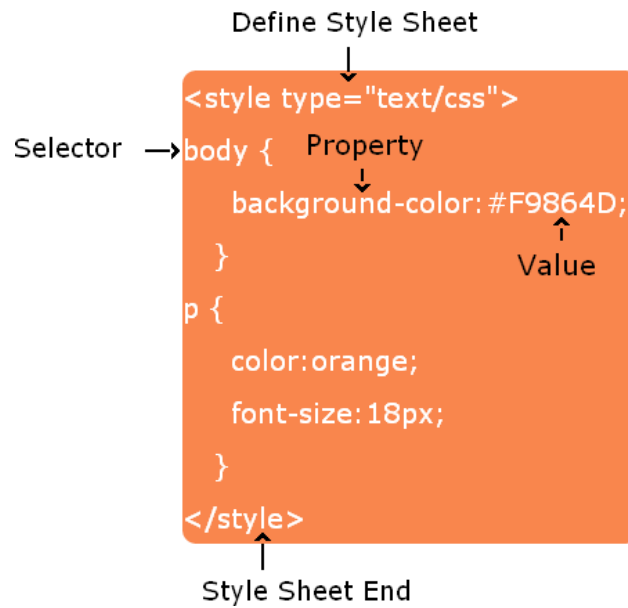
Internal CSS style consists set of rules in 3 part:

1. Selector (element, class, id)
2. Property and

3. Value

How to write Internal CSS Style

Selector is normally HTML element that element you want to assign CSS style. All elements within webpage that elements assign CSS properties and set suitable values.



Example Code:

```
<html>
<head>
<style type="text/css">
p {
  color:purple;
  margin-left:20px;
}
div{
  color:purple;
  font-size:16px;
  background-color:#FF6633;
}
</style>
</head>
<body>
  <p>This is a paragraph line.</p>
  <div>This is a paragraph Second line.</div>
</body>
</html>
```

Output:



External Style Sheet

External Style Sheet define in separate .css extension file. and used to make global change also manage all webpage from a single CSS document.

External style sheets give you control to change formatting and layout styles of every single elements in webpages. And only those webpage who are linked with external CSS document.

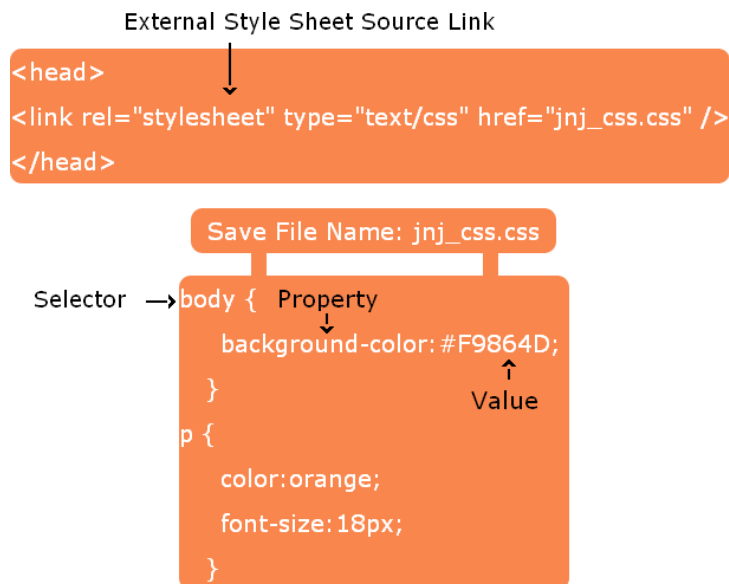
External style sheet consists set of rules in 4 part:

1. External Source link
2. Selector (element, class, id)
3. Property and
4. Value

How to write External Stylesheet

External stylesheet linked to a webpage.

Selector is normally HTML element (or class, id) to assign CSS properties and set suitable values.



Example Code:

jnj_css.css

```
body  
{  
background-color:#f9864d;  
}  
p{  
color:orange;  
font-size:18px;  
}
```

External.html

```
<html>  
<head>  
<link rel="stylesheet" type="text/css" href="jnj_css.css" />  
</head>  
<body>  
<p>This is a paragraph line.</p>  
<div>This is a paragraph Second line.</div>  
</body>  
</html>
```

Example Result:



PROGRAM – 4

4. Write a java script program to read .XML file and display data in a neat format.

library.xml

```
<?xml version="1.0"?>
<Library>
  <List>
    <code>1</code>
    <BookName>Computer Architecture</BookName>
    <Category>Computers</Category>
    <Price>125.60</Price>
  </List>
  <List>
    <code>2</code>
    <BookName>Advanced Composite Materials</BookName>
    <Category>Science</Category>
    <Price>172.56</Price>
  </List>
  <List>
    <code>3</code>
    <BookName>Asp.Net 4 Blue Book</BookName>
    <Category>Programming</Category>
    <Price>56.00</Price>
  </List>
  <List>
    <code>4</code>
    <BookName>Stategies Unplugged</BookName>
    <Category>Science</Category>
    <Price>99.99</Price>
  </List>
  <List>
    <code>5</code>
    <BookName>Teaching Science</BookName>
    <Category>Science</Category>
    <Price>164.10</Price>
  </List>
  <List>
    <code>6</code>
    <BookName>Challenging Times</BookName>
    <Category>Business</Category>
    <Price>150.70</Price>
  </List>
  <List>
    <code>7</code>
    <BookName>Circuit Bending</BookName>
    <Category>Science</Category>
    <Price>112.00</Price>
  </List>
  <List>
    <code>8</code>
    <BookName>Popular Science</BookName>
    <Category>Science</Category>
    <Price>210.40</Price>
  </List>
</Library>
```

```

    </List>
    <List>
    <code>9</code>
        <BookName>ADOBE Premiere</BookName>
        <Category>Computers</Category>
        <Price>62.20</Price>
    </List>
</Library>

```

Readxml.html

```

<html>
<head>
    <title>Extract XML Data using JavaScript</title>
    <style>
        #books {
margin-left: 190px;
            font:13px Arial;
            width:582px;
            text-align:center;
            border:solid 1px #000;
            overflow:hidden;
        }
        #books div {
            width:180px;
            text-align:left;
            border:solid 1px #000;
            margin:1px;
            padding:2px 5px;
        }
        .col1 {
            float:left;
            clear:both;
        }
        .col2 {
            float:left;
        }
        .col3 {
            float:left;
        }
    </style>

```

```

<script src="readxml.js"></script>
</head>
<body>
    <div id="books"></div>
</body>
</html>

```

Readxml.js

```

var oXHR = window.XMLHttpRequest ? new XMLHttpRequest() : new
ActiveXObject('Microsoft.XMLHTTP');

```

```

function reportStatus() {
    if (oXHR.readyState == 4)           // REQUEST COMPLETED.
        showTheList(this.responseXML); // ALL SET. NOW SHOW XML
    DATA.
}

oXHR.onreadystatechange = reportStatus;
oXHR.open("GET", "library.xml", true);
// true = ASYNCHRONOUS REQUEST (DESIRABLE), false = SYNCHRONOUS
REQUEST.
oXHR.send();

function showTheList(xml) {

    var divBooks = document.getElementById('books'); // THE PARENT DIV.
    var Book_List = xml.getElementsByTagName('List');
    // THE XML TAG NAME.

    for (var i = 0; i < Book_List.length; i++) {

        // CREATE CHILD DIVS INSIDE THE PARENT DIV.
        var divLeft = document.createElement('div');
        divLeft.className = 'col1';
        divLeft.innerHTML =
Book_List[i].getElementsByTagName("BookName")[0].childNodes[0].nodeValue;

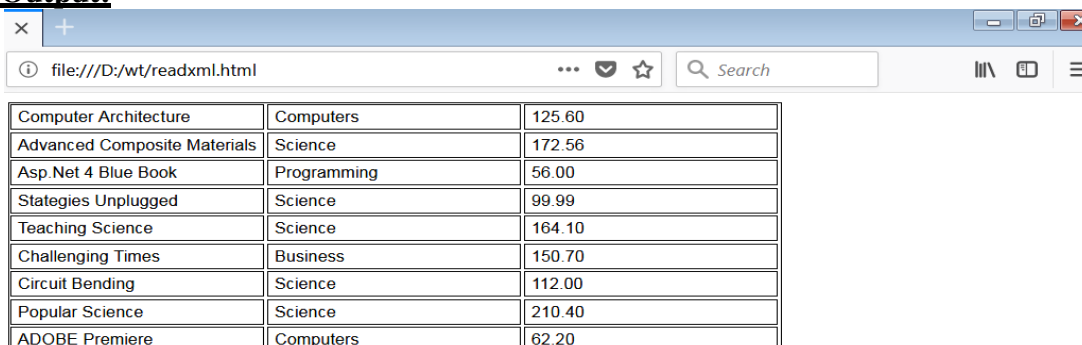
        var divRight = document.createElement('div');
        divRight.className = 'col2';
        divRight.innerHTML =
Book_List[i].getElementsByTagName("Category")[0].childNodes[0].nodeValue;

        var divR2 = document.createElement('div');
        divR2.className = 'col3';
        divR2.innerHTML =
Book_List[i].getElementsByTagName("Price")[0].childNodes[0].nodeValue;

        // ADD THE CHILD TO THE PARENT DIV.
        divBooks.appendChild(divLeft);
        divBooks.appendChild(divRight);
        divBooks.appendChild(divR2);
    }
};

```

Output:



Computer Architecture	Computers	125.60
Advanced Composite Materials	Science	172.56
Asp.Net 4 Blue Book	Programming	56.00
Stategies Unplugged	Science	99.99
Teaching Science	Science	164.10
Challenging Times	Business	150.70
Circuit Bending	Science	112.00
Popular Science	Science	210.40
ADOBE Premiere	Computers	62.20

PROGRAM – 5

5. To write a Javascript program to define a user defined function for sorting the values in an array. Use HTML5 for user interface.

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

<p>Click the button to sort the array.</p>

<button onclick="myFunction()">sort</button>

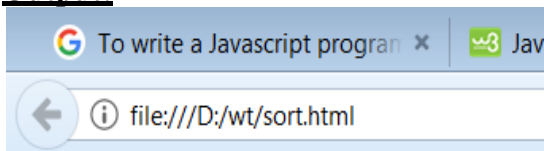
<p id="demo"></p>

<script>
var fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits;

function myFunction() {
  fruits.sort();
  document.getElementById("demo").innerHTML = fruits;
}
</script>

</body>
</html>
```

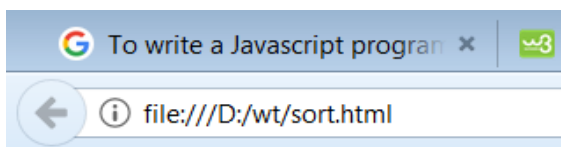
Output:



Click the button to sort the array.

sort

Banana,Orange,Apple,Mango



Click the button to sort the array.

sort

Apple,Banana,Mango,Orange

PROGRAM – 6

6. To create an html page to demonstrate exception handling in javascript, Create an html page named as —exception.html and do the following.

i. within the script tag write code to handle exception

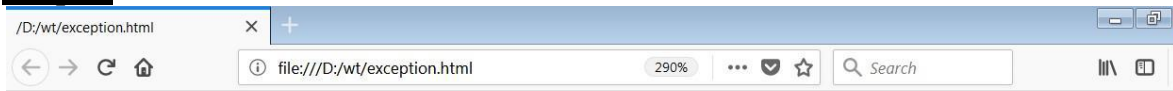
a) define a method RunTest() to get any string values(str) from the user and call the method Areletters(str).

b) In Areletters(str) method check whether str contain only alphabets (a-z, AZ), if not throw exception.

c) Define a exception method Input Exception(str) to handle the exception thrown by the above method.

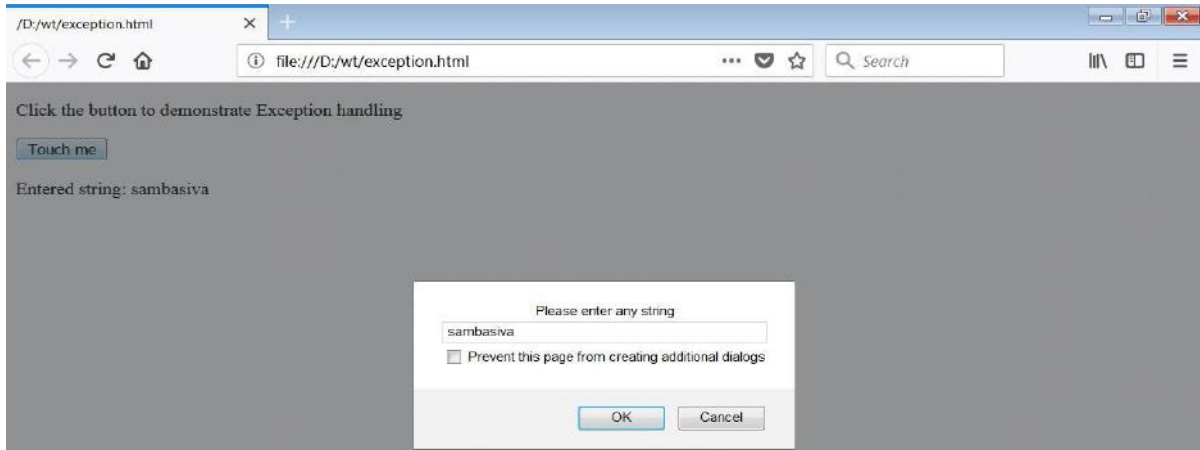
```
<!DOCTYPE html>
<html>
<body >
<p >Click the button to demonstrate Exception handling </p>
<button onclick="RunTest()" >Touch me</button>
<p id="message"></p>
<script>
function isalpha(str) {
var f=0;
for(i=0;i<str.length;i++)
{
    if (((str[i] >= 'a') && (str[i] <= 'z')) || ((str[i] >= 'A') && (str[i] <= 'Z')))
        f=0;
    else
        f=1;
}
if (f==0)
return 1;
else
return 0;
}
function RunTest() {
var str = prompt("Please enter any string", "sambasiva");
try {
    if(str == "") throw "is empty";
    else if(!isalpha(str)) throw "string must contain alphabets only";
    else
        document.getElementById("message").innerHTML =
        "Entered string: " + str;
}
catch(err) {
    document.getElementById("message").innerHTML = "Error: " + err + ".";
}
}
</script>
</body>
</html>
```


Output:



Click the button to demonstrate Exception handling

Touch me



Click the button to demonstrate Exception handling

Touch me

Entered string: sambasiva

PROGRAM – 7

7. Write a jsp servlet program to implement the single text field calculator.

Calculator.html

```
<html>
<title>calculator</title>
<head><h1><center>Basic Calculator</center></h1></head>
<body>
<center>
<form action="calculator.jsp" method="get">
<label for="num1"><b>Number 1</b></label>
<input type="text" name="num1"><br><br>
<label for="num2"><b>Number 2</b></label>
<input type="text" name="num2"><br><br>
<input type="radio" name="r1" value="Add">+
<input type="radio" name="r1" value="Sub">-<br>
<input type="radio" name="r1" value="mul">*
<input type="radio" name="r1" value="div">/<br><br>
<input type="submit" value="submit">
</center>
</body>
</html>
```

calculator.jsp

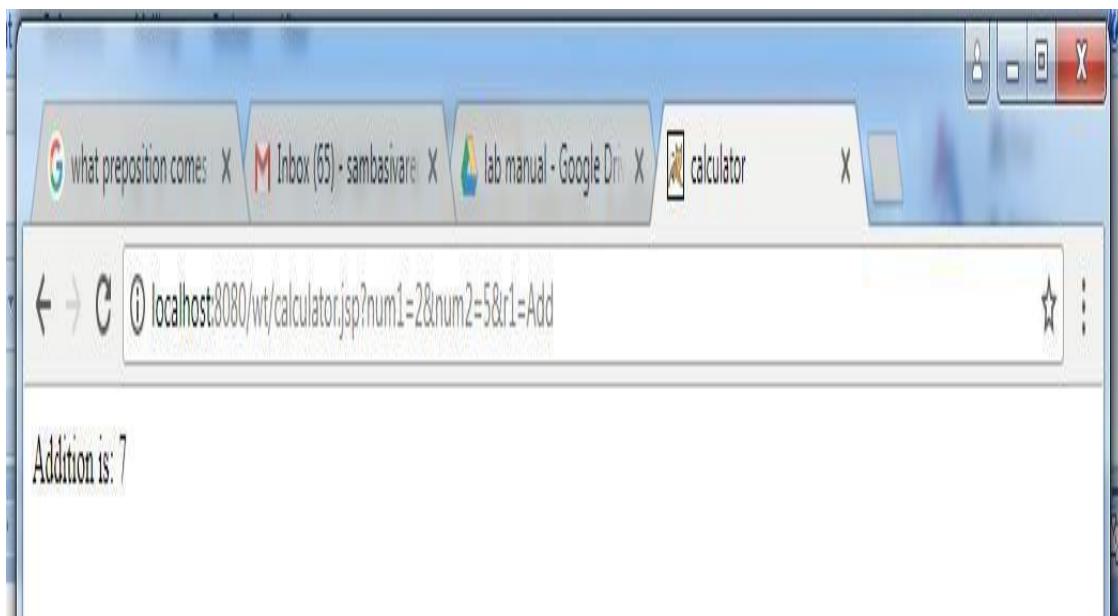
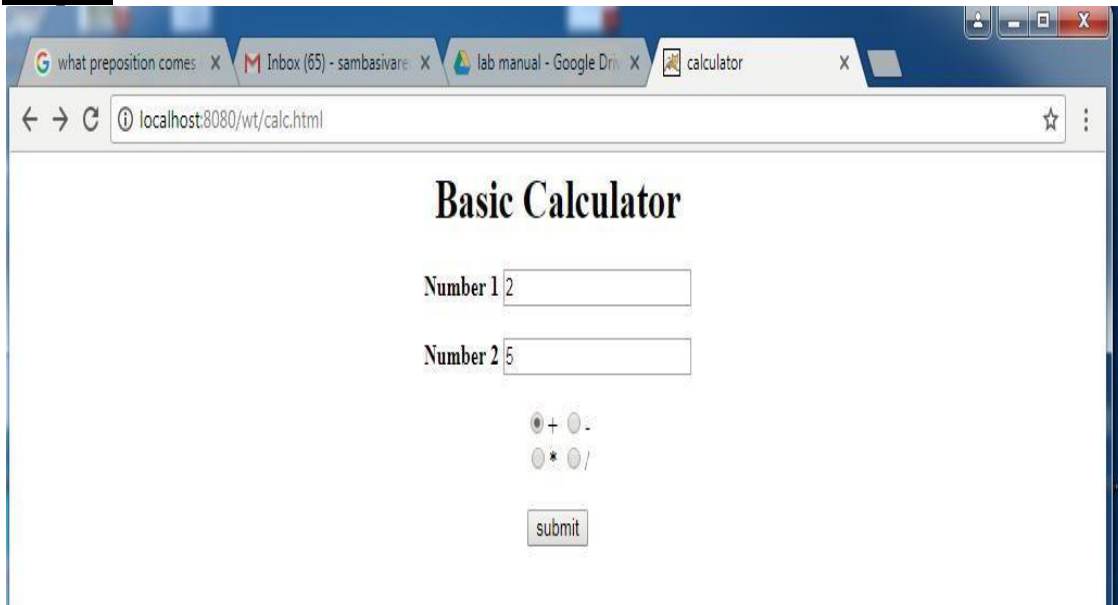
```
<html>
<title>calculator</title>
<head></head>
<body>
<% @page language="java"%>
<%
    int num1 = Integer.parseInt(request.getParameter("num1"));
    int num2 = Integer.parseInt(request.getParameter("num2"));

    String operation = request.getParameter("r1");

    if(operation.equals("Add")){
        int add=num1+num2;
        out.println("Addition is: "+add);
    }
    else if(operation.equals("Sub")){
        int sub=num1-num2;
        out.println("Substraction is: "+sub);
    }
    else if(operation.equals("mul")){
        int mul=num1*num2;
        out.println("multiplication is: "+mul);
    }
    else if(operation.equals("div"))
    {
        int div = num1/num2;
        if(num1>=num2)
            out.println("division is: "+div);
        else
            out.println("The division cannot be performed");
    }
%>
```

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

Output:



PROGRAM – 8

8. Write a jsp servlet program to demonstrate session handling using

– url rewriting

--hidden formfield

--cookies

--sessions

1. url rewriting

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.util.*;

// Extend HttpServlet class
public class SessionTrack extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        // Create a session object if it is already not created.
        HttpSession session = request.getSession(true);

        // Get session creation time.
        Date createTime = new Date(session.getCreationTime());

        // Get last access time of this web page.
        Date lastAccessTime = new Date(session.getLastAccessedTime());

        String title = "Welcome Back to my website";
        Integer visitCount = new Integer(0);
        String visitCountKey = new String("visitCount");
        String userIDKey = new String("userID");
        String userID = new String("ABCD");

        // Check if this is new comer on your web page.
        if (session.isNew()) {
            title = "Welcome to my website";
            session.setAttribute(userIDKey, userID);
        } else {
            visitCount = (Integer)session.getAttribute(visitCountKey);
            visitCount = visitCount + 1;
            userID = (String)session.getAttribute(userIDKey);
        }
        session.setAttribute(visitCountKey, visitCount);

        // Set response content type
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        String docType =
            "<!doctype html public "-//w3c//dtd html 4.0 " + "transitional//en">\n";

        out.println(docType + "<html>\n" + "<head><title>" + title + "</title></head>\n"
            + "<body bgcolor = \"#f0f0f0\">\n" + "<h1 align = \"center\">" + title + "</h1>\n" + "<h2
```

```

align = \"center\">Session Infomation</h2>\n" + " <table border = \"1\" align =
\"center\">\n" + " <tr bgcolor = \"#949494\">\n" + " <th>Session info</th><th>value</th>
</tr>\n" + " <tr>\n" + " <td>id</td>\n" + " <td>" + session.getId() + "</td> </tr>\n" +
"<tr>\n" + " <td>Creation Time</td>\n" + " <td>" + createTime + " </td> </tr>\n" +
"<tr>\n" + " <td>Time of Last Access</td>\n" + " <td>" + lastAccessTime + " </td>
</tr>\n" + " <tr>\n" + " <td>User ID</td>\n" + " <td>" + userID + " </td> </tr>\n" +
"<tr>\n" + " <td>Number of visits</td>\n" + " <td>" + visitCount + "</td> </tr>\n"
+ "</table>\n" + "</body> </html>");
}
}

```

Output:

2. Sessions

HelloForm1.java

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

// Extend HttpServlet class
public class HelloForm1 extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        // Create cookies for first and last names.
        Cookie firstName = new Cookie("first_name", request.getParameter("first_name"));
        Cookie lastName = new Cookie("last_name", request.getParameter("last_name"));

        // Set expiry date after 24 Hrs for both the cookies.
        firstName.setMaxAge(60*60*24);
        lastName.setMaxAge(60*60*24);

        // Add both the cookies in the response header.
        response.addCookie( firstName );
        response.addCookie( lastName );
        // Set response content type
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        String title = "Setting Cookies Example";
        String docType =
            "<!doctype html>\n";
            out.println(docType +
                "<html>\n" +
                "<head><title>" + title + "</title></head>\n" + "<body bgcolor = \"#f0f0f0\">\n"
                + "<h1 align = \"center\">" + title + "</h1>\n" + "<ul>\n" + "<li><b>First Name</b>:" +
                request.getParameter("first_name") + "\n" + "<li><b>Last Name</b>:" +
                request.getParameter("last_name") + "\n" + "</ul>\n" + "</body></html>");
        }
    }
}

```

123.html

```

<html>
<body>
<form action = "HelloForm1" method = "GET">
    First Name: <input type = "text" name = "first_name">

```

```
<br />
Last Name: <input type = "text" name = "last_name" />
<input type = "submit" value = "Submit" />
</form>
</body>
</html>
```

Output:



PROGRAM – 9

9. To create a php program to demonstrate the different predefined function in array, Math, Data & Regular Expression.

Procedure:

- Create php file named as **Regularexpression.php**
- for demonstrating the method for handling various strings with regular expression **Array.php**
- for demonstrating the methods for handling the array values **Math_function.php**
- to demonstrate the predefined in math objects. **Date_time.php** to demonstrate the predefined function in date subject

Regularexpression.php

```
<?php
$my_url = "www.google.com";
if (preg_match("/gle/", $my_url))
{
    echo "the url $my_url contains gle."<br>";
}
else
{
    echo "the url $my_url does not contain gle."<br>";
}
$my_text="I Love Regular Expressions";
$my_array = preg_split("/ /", $my_text);
print_r($my_array );
echo "<br>";
$text = "We at google strive to make quality education affordable to the students.
google.com";
$text = preg_replace("/goo/", '<span style="background:yellow">goo</span>', $text);
echo $text;
echo "<br>";
$my_email = "sambasiva@crectirupati.com";
if (preg_match("/^[a-zA-Z0-9._-]+@[a-zA-Z0-9-]+.[a-zA-Z.]{2,5}$/", $my_email)) {
echo "$my_email is a valid email address";
}
else
{
    echo "$my_email is NOT a valid email address";
}
?>
```

PHP 5 Math Functions

Function	Description
abs()	Returns the absolute (positive) value of a number
acos()	Returns the arc cosine of a number
acosh()	Returns the inverse hyperbolic cosine of a number
asin()	Returns the arc sine of a number
asinh()	Returns the inverse hyperbolic sine of a number

<u>atan()</u>	Returns the arc tangent of a number in radians
<u>atan2()</u>	Returns the arc tangent of two variables x and y
<u>atanh()</u>	Returns the inverse hyperbolic tangent of a number
<u>base_convert()</u>	Converts a number from one number base to another
<u>bindec()</u>	Converts a binary number to a decimal number
<u>ceil()</u>	Rounds a number up to the nearest integer
<u>cos()</u>	Returns the cosine of a number
<u>cosh()</u>	Returns the hyperbolic cosine of a number
<u>decbin()</u>	Converts a decimal number to a binary number
<u>dechex()</u>	Converts a decimal number to a hexadecimal number
<u>decoct()</u>	Converts a decimal number to an octal number
<u>deg2rad()</u>	Converts a degree value to a radian value
<u>exp()</u>	Calculates the exponent of e
<u>expm1()</u>	Returns $\exp(x) - 1$
<u>floor()</u>	Rounds a number down to the nearest integer
<u>fmod()</u>	Returns the remainder of x/y
<u>getrandmax()</u>	Returns the largest possible value returned by rand()
<u>hexdec()</u>	Converts a hexadecimal number to a decimal number
<u>hypot()</u>	Calculates the hypotenuse of a right-angle triangle
<u>is_finite()</u>	Checks whether a value is finite or not
<u>is_infinite()</u>	Checks whether a value is infinite or not
<u>is_nan()</u>	Checks whether a value is 'not-a-number'
<u>lcg_value()</u>	Returns a pseudo random number in a range between 0 and 1
<u>log()</u>	Returns the natural logarithm of a number
<u>log10()</u>	Returns the base-10 logarithm of a number
<u>log1p()</u>	Returns $\log(1+\text{number})$
<u>max()</u>	Returns the highest value in an array, or the highest value of several specified values
<u>min()</u>	Returns the lowest value in an array, or the lowest value of several

	specified values
mt_getrandmax()	Returns the largest possible value returned by mt_rand()
mt_rand()	Generates a random integer using Mersenne Twister algorithm
mt_srand()	Seeds the Mersenne Twister random number generator
octdec()	Converts an octal number to a decimal number
pi()	Returns the value of PI
pow()	Returns x raised to the power of y
rad2deg()	Converts a radian value to a degree value
rand()	Generates a random integer
round()	Rounds a floating-point number
sin()	Returns the sine of a number
sinh()	Returns the hyperbolic sine of a number
sqrt()	Returns the square root of a number
srand()	Seeds the random number generator
tan()	Returns the tangent of a number
tanh()	Returns the hyperbolic tangent of a number

Math_function.php

```

<?php
echo(abs(6.7) . "<br>");
echo(abs(-6.7) . "<br>");
echo(abs(-3) . "<br>");
echo(abs(3) . "<br>");
echo(acos(0.64) . "<br>");
echo(acos(-0.4) . "<br>");
echo(acos(0) . "<br>");
echo(acos(-1) . "<br>");
echo(acos(1) . "<br>");
echo(acos(2) . "<br>");
echo(asin(0.64) . "<br>");

```

```
echo(asin(-0.4) . "<br>");
echo(asin(0) . "<br>");
echo(asin(-1) . "<br>");
echo(asin(1) . "<br>");
echo(atan(0.50) . "<br>");
echo(atan(-0.50) . "<br>");
echo(atan(5) . "<br>");
echo(atan(-5) . "<br>");
echo(atan(100) . "<br>");
echo(atan(-100) . "<br>");
$hex = "E196";
echo base_convert($hex,16,8);
echo bindec("0011") . "<br>";
echo bindec("01") . "<br>";
echo bindec("11000110011") . "<br>";

echo(ceil(0.60) . "<br>");
echo(ceil(0.40) . "<br>");
echo(ceil(5) . "<br>");
echo(ceil(5.1) . "<br>");
echo(ceil(-5.1) . "<br>");
echo(ceil(-5.9));

echo(cos(3) . "<br>");
echo(cos(-3) . "<br>");
echo(cos(0) . "<br>");
echo(cos(M_PI) . "<br>");
echo(cos(2*M_PI));

echo dechex("30") . "<br>";
echo dechex("10") . "<br>";
echo dechex("1587") . "<br>";
echo dechex("70");
```

```
echo decbin("3") . "<br>";
echo decbin("1") . "<br>";
echo decbin("1587") . "<br>";
echo decbin("7");

echo dechex("30") . "<br>";
echo dechex("10") . "<br>";
echo dechex("1587") . "<br>";
echo dechex("70");

echo decoct("30") . "<br>";
echo decoct("10") . "<br>";
echo decoct("1587") . "<br>";
echo decoct("70");

echo deg2rad("45") . "<br>";
echo deg2rad("90") . "<br>";
echo deg2rad("360");

echo(exp(0) . "<br>");
echo(exp(1) . "<br>");
echo(exp(10) . "<br>");
echo(exp(4.8));

echo(expm1(0) . "<br>");
echo(expm1(1) . "<br>");
echo(expm1(10) . "<br>");
echo(expm1(4.8));

echo(floor(0.60) . "<br>");
echo(floor(0.40) . "<br>");
echo(floor(5) . "<br>");
echo(floor(5.1) . "<br>");
echo(floor(-5.1) . "<br>");
```

```
echo(floor(-5.9));

$x = 7;
$y = 2;
$result = fmod($x,$y);
echo $result;

echo hexdec("1e") . "<br>";
echo hexdec("a") . "<br>";
echo hexdec("11ff") . "<br>";
echo hexdec("cceedf");

echo(log(2.7183) . "<br>");
echo(log(2) . "<br>");
echo(log(1) . "<br>");
echo(log(0));

echo is_finite(2) . "<br>";
echo is_finite(log(0)) . "<br>";
echo is_finite(2000);
echo(max(2,4,6,8,10) . "<br>");
echo(max(22,14,68,18,15) . "<br>");
echo(max(array(4,6,8,10)) . "<br>");
echo(max(array(44,16,81,12)));

echo(min(2,4,6,8,10) . "<br>");
echo(min(22,14,68,18,15) . "<br>");
echo(min(array(4,6,8,10)) . "<br>");
echo(min(array(44,16,81,12)));

echo(mt_rand() . "<br>");
echo(mt_rand() . "<br>");
echo(mt_rand(10,100));
```

```
echo(pi());

echo(pow(2,4) . "<br>");
echo(pow(-2,4) . "<br>");
echo(pow(-2,-4) . "<br>");
echo(pow(-2,-3.2));
?>
```

Date_time.php

```
<?php
var_dump(checkdate(12,31,-400));
echo "<br>";
var_dump(checkdate(2,29,2003));
echo "<br>";
var_dump(checkdate(2,29,2004));
$date=date_create("2013-03-15");
date_add($date,date_interval_create_from_date_string("40 days"));
echo date_format($date,"Y-m-d")."<br>";
$date=date_create("2013-03-15");
echo date_format($date,"Y/m/d")."<br>";
$date=date_create();
date_date_set($date,2020,10,30);
echo date_format($date,"Y/m/d")."<br>";
echo date_default_timezone_get()."<br>";
date_default_timezone_set("Asia/Bangkok");
echo date_default_timezone_get()."<br>";
$date1=date_create("2013-03-15");
$date2=date_create("2013-12-12");
$diff=date_diff($date1,$date2);
print_r(localtime());
echo "<br><br>";
print_r(localtime(time(),true));
?>
```

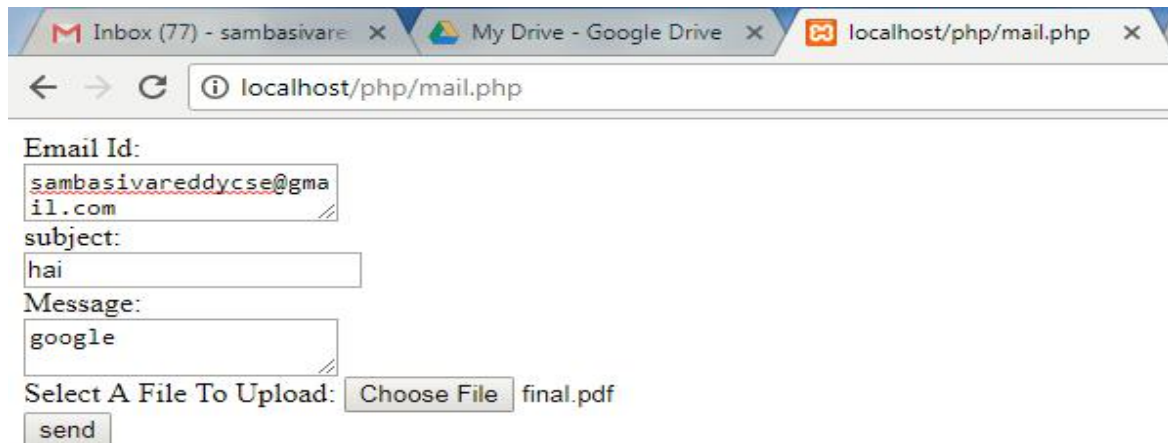
PROGRAM – 10

10. Write a program in PHP for a simple email processing with attachment using forms.

Mail.php

```
<?php
<form method="POST" name="email_form_with_php" action="php-form-action.php"
enctype="multipart/form-data">
    <label for='email'>Email Id: </label><br>
    <textarea name="message"></textarea><br>
<label for=' subject'>subject: </label><br>
    <input type="text" name="subject" ><br>
    <label for='message'>Message:</label><br>
    <textarea name="message"></textarea><br>
    <label for='uploaded_file'>Select A File To Upload:</label>
    <input type="file" name="uploaded_file"><br>
<input type="submit" value="send" name='send'><br>
</form>
?>
```

Output:



Email Id:
sambasivareddycse@gmail.com

subject:
hai

Message:
google

Select A File To Upload: Choose File final.pdf

send

PROGRAM – 11

11. Write a program for PHP for a login script ; create a login database and store username and password

P1.php

```
<html>

<body>

<form name="test" method="post" action="p2.php">

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

Password::<input type="password" name="pwd"><br>

<input type="submit" value="SUBMIT" id="submitbut"><br>

</form>

</body>

</html>
```

P2.php

```
<?php

$name=$_POST['uname'];

$pwd=$_POST['pwd'];

session_start();

if(!isset($_SESSION['x'])){

$_SESSION['x']=TRUE;

}

if($_SESSION['x']==TRUE){

$conn=mysqli_connect("localhost","root","","cse");

mysqli_query($conn,"INSERT INTO login(uname,pwd) VALUES('$name','$pwd)");

$_SESSION['x']=FALSE;

for($i=0;$i<=2000000;$i++);//do nothing

for($i=0;$i<=2000000;$i++);//do nothing

for($i=0;$i<=2000000;$i++);//do nothing

for($i=0;$i<=2000000;$i++);//do nothing

for($i=0;$i<=2000000;$i++);//do nothing

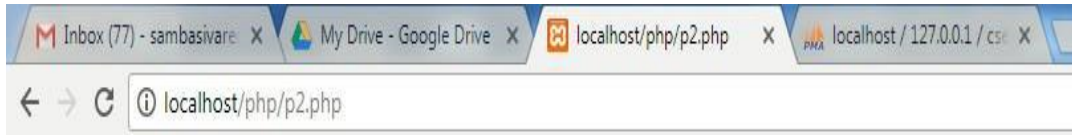
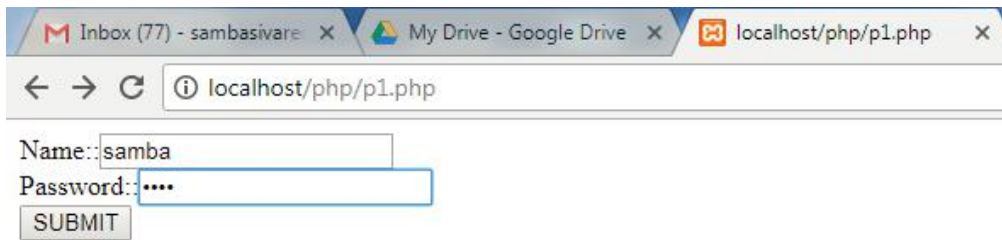
}

echo "Successfully added to database";
```

session_unset();

?>

Output:



Successfully added to database

