

# **WEB TECHNOLOGY**



**GOVT. COLLEGE THALASSERY**  
**KANNUR UNIVERSITY**

**CERTIFICATE**

This is to certify that this is the bonafide record of the original work done by Ms/Mr ..... Reg no..... of Sixth semester BCA in the programming in WEB TECHNOLOGY lab during the year 2020-21

Lecture in Charge

Head of the Department

Submitted for the university Practical Examination held on  
.....

Examiner1:

Examiner2:

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# PROGRAM 1

## BASIC TAGS

**Aim:** Develop and HTML page using all basic tags

**Program:**

```
<HTML>
<HEAD>
    <TITLE> PROGRAM 1 HTML BASIC TAGS </TITLE>
</HEAD>
<BODY>
    <H1> Physical Style Tags </H2>
    This is bold text - <b>GCT</b> <br>
    This is italics - <i>GCT</i><br>
    This is underlined - <u>GCT</u><br>
    This is strikethrough text <s>GCT</s> <br>

    <H1> Big and small sized fonts</H2> <br>

    ABCD<BIG>EFG</BIG>

    HIJ<SMALL>KLMN</SMALL> OPQ

<h1> Subscript and Superscript</h2>

(10)<sub>2</sub> <br>

(a+b)<sup>2</sup> <br>

January 31<sup>st</sup> <br>

<h1> HTML HEADING TAGS </H2>

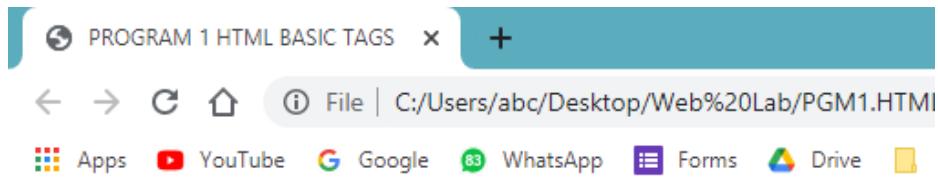
<H1>Heading 1 GOVT COLLEGE THALASSERY</H1>
<H2>Heading 2 GOVT COLLEGE THALASSERY</H2>
<H3>Heading 3 GOVT COLLEGE THALASSERY</H3>
<H4>Heading 4 GOVT COLLEGE THALASSERY</H4>
<H5>Heading 5 GOVT COLLEGE THALASSERY</H5>
<H6>Heading 6 GOVT COLLEGE THALASSERY</H6>

<H1> P Tag</H1>
<P> This is a paragraph tag. When this thag is used, browser adds a
new line before and after the paragraph </P>

<h1> PRE TAG</h2>
```

```
<pre>
  department of BCA
  no.1 department in GCT
  strength is 23
</pre>
<h5> Thankyou </h3>
</BODY>
</HTML>
```

## Output:



## Physical Style Tags

This is bold text - **GCT**  
 This is italics - *GCT*  
 This is underlined - GCT  
 This is strikethrough text ~~GCT~~

## Big and small sized fonts

ABCDEFGH IJKLMNOPQ

## Subscript and Superscript

(10)<sub>2</sub>  
 (a+b)<sup>2</sup>  
 January 31<sup>st</sup>

## HTML HEADING TAGS

**Heading 1 GOVT COLLEGE THALASSERY**

**Heading 2 GOVT COLLEGE THALASSERY**

**Heading 3 GOVT COLLEGE THALASSERY**

**Heading 4 GOVT COLLEGE THALASSERY**

**Heading 5 GOVT COLLEGE THALASSERY**

**Heading 6 GOVT COLLEGE THALASSERY**

## P Tag

This is a paragraph tag. When this tag is used, browser adds a new line before and after the paragraph

## PRE TAG

```
department of BCA
no.1 department in GCT
strength is 23
```

Thankyou

## RESULT

Program executed successfully and obtained output

## PROGRAM 2

### LISTS

**Aim:** Develop an HTML page containing all types of lists

#### **Program**

```
<!DOCTYPE html>
<html>
<head>
    <title>Program 2 Lists</title>
</head>
<body>
    <H2> Input Output and Memory Devices</H2>

    <ol type="I">
        <li> Input Devices </li>
        <ul>
            <li>Keyboard</li>
            <li>Mouse</li>
            <li>Scanner</li>
            <li>Microphone</li>
        </ul>

        <br>

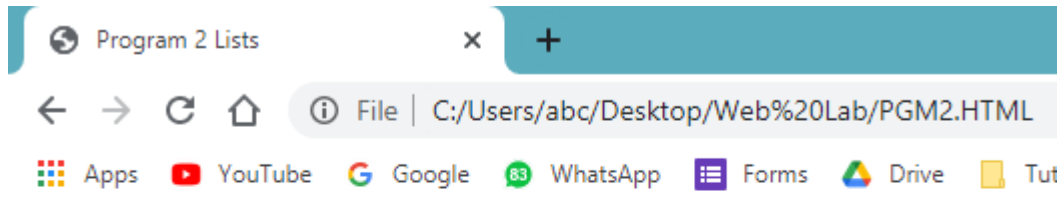
        <li>Output Devices</li>
        <ul>
            <li>Monitor</li>
            <li>Printer</li>
            <li>Speaker</li>
        </ul>

        <br>
        <li>Memory Devices</li>
        <ul type="square">
            <li>Harddisk</li>
            <li>RAM</li>
            <li>ROM</li>
        </ul>

    </ol>

</body>
</html>
```

## Output:



## Input Output and Memory Devices

### I. Input Devices

- Keyboard
- Mouse
- Scanner
- Microphone

### II. Output Devices

- Monitor
- Printer
- Speaker

### III. Memory Devices

- Harddisk
- RAM
- ROM

## Result:

Program executed successfully and obtained output



## PROGRAM 3

### TABLES

#### Aim:

Create a web page giving following train details in a tabular form with the heading Train Time Table, including- Train name, Starting Place, destination, Arrival time, Departure time and Fare

#### Program:

```
<!DOCTYPE html>
<html>
<head>
    <title> Program 3 Table </title>
</head>
<body>
    <table border="5" bgcolor="orange" bordercolor="yellow">
        <caption> TRAIN TIME TABLE </caption>
        <tr>
            <th>Train Name </th>
            <th>Starting place </th>
            <th>Destination</th>
            <th>Arrival time</th>
            <th>Departure time</th>
            <th>Fare</th>
        </tr>

        <tr>
            <th> Maveli Express</th>
            <td>Mangalore</td>
            <td>Trivandrum</td>
            <td>6.30</td>
            <td>10.30</td>
            <td>500</td>
        </tr>

        <tr>
            <th> Ernad Express</th>
            <td>Mangalore</td>
            <td>Kanyakumari</td>
            <td>1.00</td>
            <td>12.00</td>
            <td>300</td>
        </tr>

        <tr>
            <th> Rajadhani Express</th>
            <td>Kannur</td>
            <td>Delhi</td>
            <td>7.00</td>
            <td>5.30</td>
```

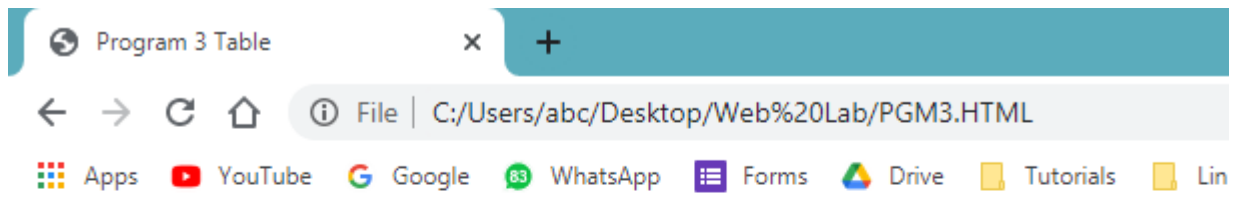
```

        <td>1000</td>
    </tr>
</table>

</body>
</html>

```

### Output:



TRAIN TIME TABLE					
Train Name	Starting place	Destination	Arrival time	Departure time	Fare
Maveli Express	Mangalore	Trivandrum	6.30	10.30	500
Ernad Express	Mangalore	Kanyakumari	1.00	12.00	300
Rajadhani Express	Kannur	Delhi	7.00	5.30	1000

### Result:

Program executed successfully and obtained output

## PROGRAM 4

### IMAGE AS LINKS

#### **Aim:**

Create an HTML page with images. Clicking on images should lead to external documents

#### **Program:**

```
<!DOCTYPE html>
<html>
<head>
  <title> Program 4 - Images </title>
</head>
<body>
<center>
  <h1> SELECT A FLOWER</h1>
  <table>
    <tr>
      <td>
        <a href="sun.html"> </a>
      </td>

      <td>
        <a href="rose.html">  </a>
      </td>

      <td>
        <a href="jas.html"> </a>
      </td>

    </tr>
  </table>
</center>
</body>
</html>
```

**Output:**

## **SELECT A FLOWER**



## **ROSE FLOWER**



**You selected Roseflower**

[Go home](#)

## **JASMINE**



**You selected Jasmine**

[Go home](#)

## **SUN FLOWER**



**You selected Sunflower**

[Go home](#)

**Result:**

Program executed successfully and obtained output

## PROGRAM 5

### JAVASCRIPT FORM VALIDATION

**Aim:**

Form validation using JavaScript

**Program:**

```
<!DOCTYPE html>
<html>
<head>
  <title> Program 5- Form Validation</title>
  <script lang="javascript">
    function validateform()
    {
      var name=document.myform.name.value;
      var password=document.myform.password.value;
      if(name==null || name=="")
      {
        alert("Name cant be blank");
        return false;
      }
      else if (password==null||password=="")
      {
        alert("Password cant be blank");
        return false;
      }
      else if (password.length<6)
      {
        alert("Password must be atleast 6 characters long");
        return false;
      }
    }
  </script>
</head>
<body>

  <table border=""1>
    <tr align="center">
      <td><h3>Login Details</h3></td>
    </tr>

    <form name=myform method="post" action="welcome.html"
      onsubmit="return validateform()">

      <tr align="center">
        <td> Name: <input type="text" name="name"> <br> </td>
      </tr>
```

```

<tr align="center">
    <td> Password <input type="Password" name="password"> <br> </td>
</tr>

<tr align="center">
    <td> <input type="submit" value="login"> </td>
</tr>

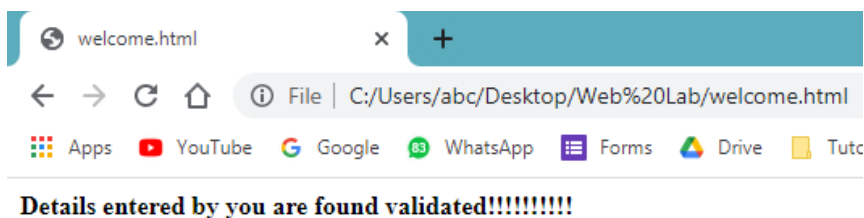
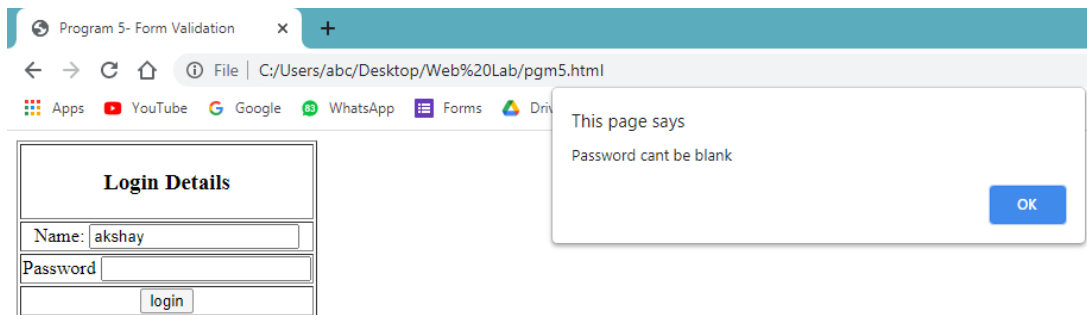
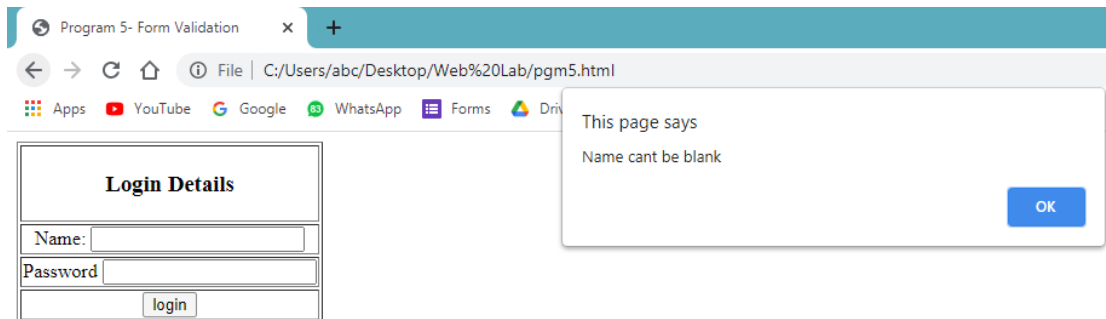
</form>

</table>

</body>
</html>

```

## Output :



## Result:

Program executed successfully and obtained output

## PROGRAM 6

### HTML FRAMES

#### **Aim:**

Create a web page for your college using frames, images and hyperlinks

#### **Program :**

//pgm6home.html

```
<html>
<frameset rows="50%,50%" frameborder="2">
<frame src="PGM6MAIN.HTML">
<frameset cols="50%,50%">
<frame src="PGM6DEPT.HTML">
<frame src="PGM6IMAGELINK.HTML" name="a">
</frameset>
</frameset>
</html>
```

//pgm6main.html

```
<html>
<body>
<h1>GOVT COLLEGE THALASSERY CHOKLI</h1>
<center>
  
</center>
<h2><u><b>Description</b></u></h2>
<h3>Govt College Thalassery is located at Chokli. It is under Kannur
University.</h3>
</body>
</html>
```

//pgm6dept.html

```
<html>
<body>
<b><u>Department</u></b>
  <ul>
    <li><a href="pgm6cs.html"target="a"> B.C.A</a>
    <li><a href="pgm6his.html"target="a"> B.A History</a>
    <li><a href="pgm6bcom.html"target="a"> B.Com</a>
  </ul>
</body>
</html>
```

//pgm6cs.html

```
<html>
<body text="red"><b><i>subjects</i></b>
<ul>
  <li>ENGLISH </li>
  <li>HINDI </li>
  <li>MATHS</li>
  <li>C++</li>
  <li>JAVA</li>
  <li>C# </li>
  <li>OPERATING SYSTEM</li>
  <li>BASIC ELECTRONICS</li>
  <li>DATA STRUCTURE</li>
  <li>COMMUNICATION SYSTEM</li>
  <li>MICRO PROCESSOR</li>
  <li>COMPUTER GRAPHICS</li>
  <li>WEB TECHNOLOGY</li>
  <li>LINUX ADMINISTRATION</li>
  <li>DIGITAL ELECTRONICS</li>
</ul>
</body>
</html>
```

//pgm6bcom.html

```
<html>
<body text="brown"><b><i>subjects are</i></b>
  <ul>
    <li>ENGLISH
    <li>HINDI
    <li>ACCOUNTING
    <li>BASIC WEB TECHNOLOGY
    <li>BUSINESS
    <li>DESASTER MANAGEMENT
  </ul>
</body>
</html>
```

//pgm6his.html

```
<html>
<body text="brown"><b><I>subjects are</i></b>
<ul>
  <li>ENGLISH</li>
  <li>HINDI</li>
```



```

<li>LOGIC</li>
<li>SOCIAL INFORMATICS</li>
<li>KERALA HISTORY</li>
<li>INDIAN HISTORY</li>
</ul>
</body>
</html>

```

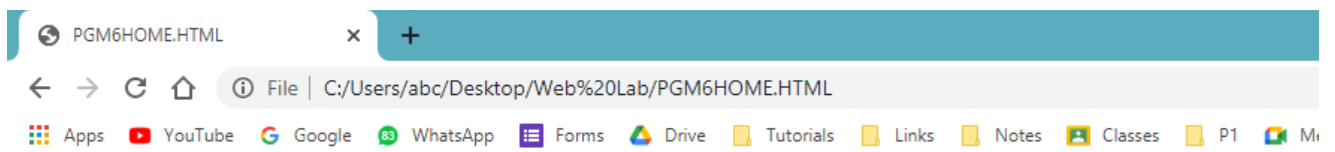
//pgm6imagelink.html

```

<html>
<body bgcolor="pink" text="green">
<b><u>Welcome</u></b>
</body>
</html>

```

## Output:



## GOVT COLLEGE THALASSERY CHOKLI



### Description

Govt College Thalassery is located at Chokli. It is under Kannur University.

#### Department

- [B.C.A](#)
- [B.A History](#)
- [B.Com](#)

#### *subjects are*

- ENGLISH
- HINDI
- LOGIC
- SOCIAL INFORMATICS
- KERALA HISTORY
- INDIAN HISTORY

## Result:

Program executed successfully and obtained output

## PROGRAM 7

### EMAIL REGISTRATION FORM

**Aim:**

Create an email registration form, give necessary validations

**Program:**

```
<html>
<head>
<title>email</title>
<script>
function validateform()
{
var fname=document.mailform.fname.value;
var lname=document.mailform.lname.value;
var mail=document.mailform.mailid.value;
var crpassword=document.mailform.crpassword.value;
var cnpassword=document.mailform.cnpassword.value;
var mobile=document.mailform.mobile.value;

if (fname==null || fname=="")
{
    alert("First Name can't be blank");
    document.mailform.fname.focus() ;
    return false;
}
else if (lname==null || lname=="")
{
    alert("Last Name can't be blank");
    return false;
}

else if(mail==null || mail=="")
{
    alert(" username can't be blank");
    return false;
}
else
{
    atpos = mail.indexOf("@");
    dotpos = mail.lastIndexOf(".");

    if (atpos < 1 || ( dotpos - atpos < 2 ))
    {
```

```

        alert("Please enter correct email ID");
        return false;
    }
}

if(crpassword==null || crpassword=="")
{
    alert(" password can't be blank");
    return false;
}
else if(cnpasswrod==null || cnpasswrod=="")
{
    alert(" confirm password can't be blank");
    return false;
}
else if(crpassword!=cnpasswrod)
{
    alert("password must be same!");
    return false;
}

if(mobile==null || mobile=="")
{
    alert(" Mobile number can't be blank");
    return false;
}
else if (isNaN(mobile))
{
    alert("Enter Numeric valueonly");
    return false;
}
else if (mobile.length!=10)
{
    alert("Mobile number must be 10 digits");
    return false;
}
}
</script>
</head>
<body>

<table border="1">

<tr align="center" >
    <td align="center"> <h3> Email Registration form</h3> </td>
</tr>

<form name="mailform" method="post" action="welcome.html"
onsubmit="return validateform()">

<tr>
    <td align="center">First Name: <input type="text" name="fname"><br/></td>

```

```

</tr>

<tr>
  <td align="center">Last Name: <input type="text" name="lname"><br/></td>
</tr>

<tr>
  <td align="center">Choose your user name:<input type="text"
    name="mailid"><br/> </td>
</tr>

<tr>
  <td align="center"> Create a Password: <input type="password"
    name="crpassword"><br/></td>
</tr>

<tr>
  <td align="center"> confirm Password: <input type="password"
    name="cnpassword"><br/></td>
</tr>

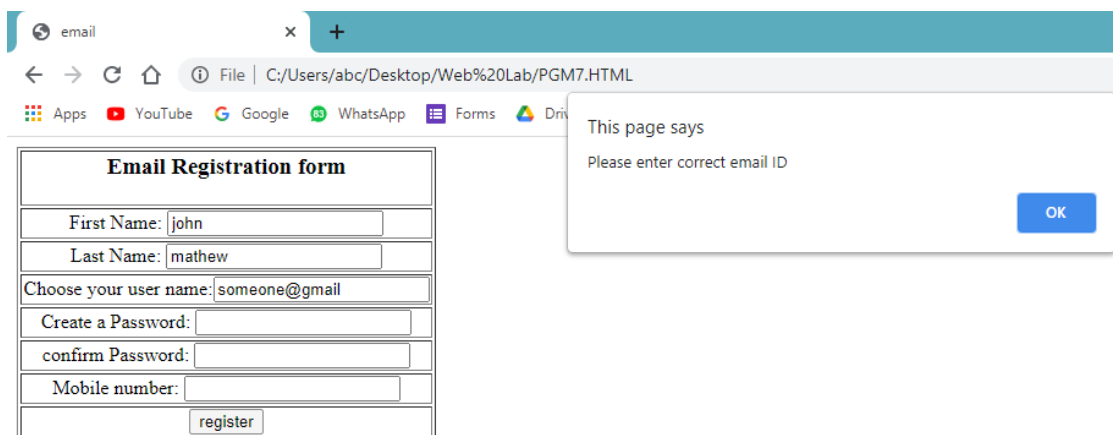
<tr>
  <td align="center">Mobile number: <input type="text" name="mobile"><br/>
</td>
</tr>

<tr>
  <td align="center"><input type="submit" value="register"> </td>
</tr>

</form>
</body>
</html>

```

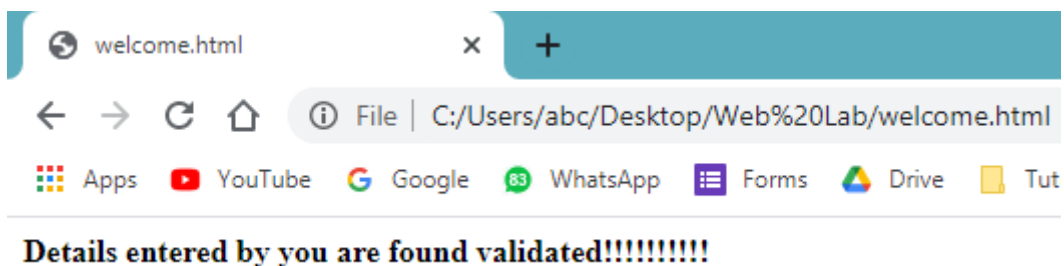
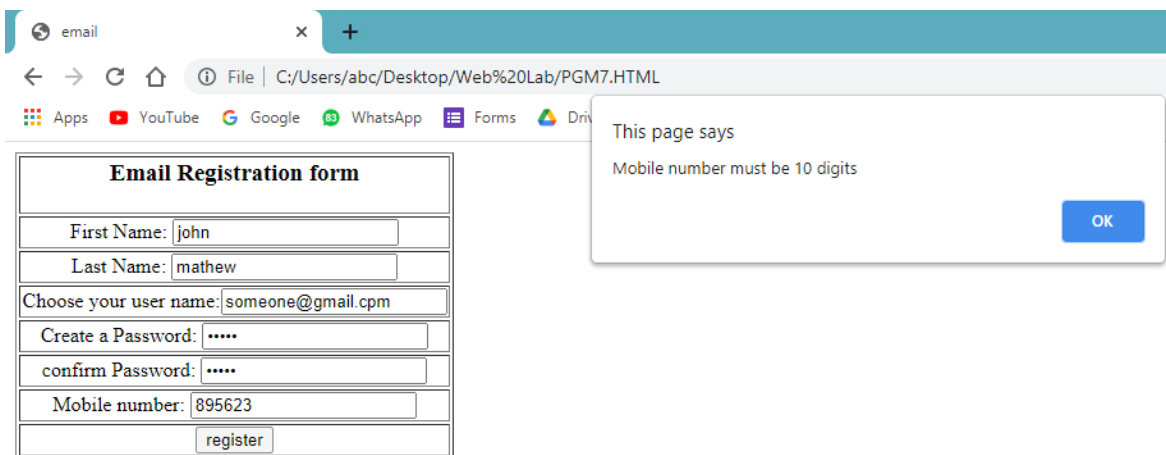
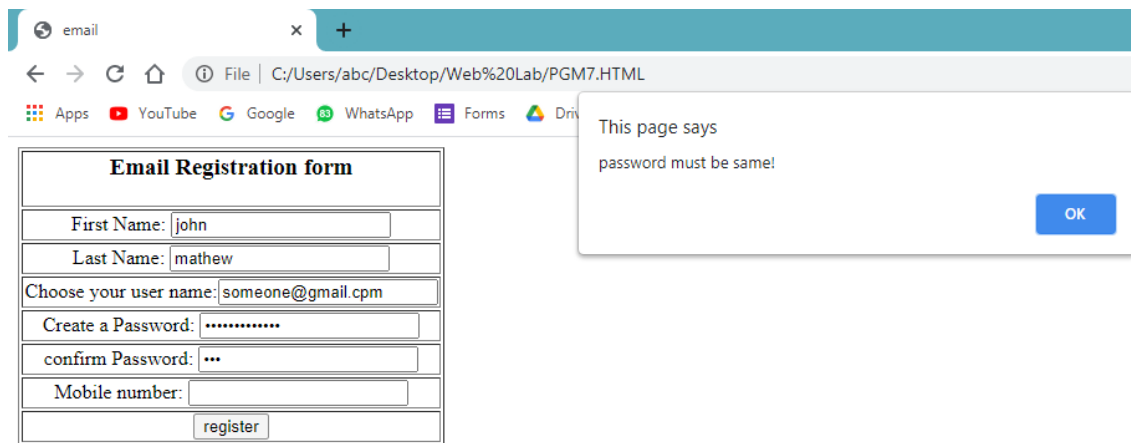
## Output:



The screenshot shows a web browser window with a single tab titled 'email'. The address bar displays the file path 'C:/Users/abc/Desktop/Web%20Lab/PGM7.HTML'. Below the browser window, there is a form titled 'Email Registration form'. The form contains the following fields and a submit button:

- First Name: john
- Last Name: mathew
- Choose your user name: someone@gmail
- Create a Password: [empty field]
- confirm Password: [empty field]
- Mobile number: [empty field]
- register (submit button)

An error message box is displayed over the form, stating: 'This page says Please enter correct email ID'. The message box has an 'OK' button.



## Result

Program executed successfully and obtained output

## PROGRAM 8

### JAVASCRIPT ARRAYS

**Aim :** Write a Javascript code using arrays

**Program:**

```
<html>
<body>

<script type="text/javascript">
a= new Array("1","2","3");
b=new Array("apple","orange","grape","jackfruit");
c= new Array(1,2,3);
document.writeln("Array lengths:");
document.writeln("<br>length of array a is: "+a.length);
document.writeln("<br>length of array b is: "+b.length);
document.writeln("<br>length of array c is: "+c.length);
document.writeln("<br>Array elements:<br>");
document.writeln("Elements Of the array a:");
for(i=0;i< a.length;i++)
{
document.writeln(a[i]);
}

document.writeln("<br>Elements Of the array b:");
for(i=0;i< b.length;i++)
{
document.writeln(b[i]);
}

document.writeln("<br>Elements Of the array c:");
for(i=0;i< c.length;i++)
{
document.writeln(c[i]);
}

document.writeln("<br><br><b>****ARRAY OPERATIONS:****</b><br>");
b.sort();
document.writeln("Array b after sorting:");
for(i=0;i< b.length;i++)
{
document.writeln(b[i]);
}

a.reverse();
document.writeln("<br> Array a in reverse order:");
for(i=0;i< a.length;i++)
{
```

```

document.writeln(a[i]);
}

d= new Array();
d=a.concat(b);
document.writeln("<br> Arrays a and b after conatenation:");
for(i=0;i< d.length;i++)
{
document.writeln(d[i]);
}

document.writeln("<br>Array a after join operation:");
var e=a.join();
document.write(e);
document.writeln("<br>");

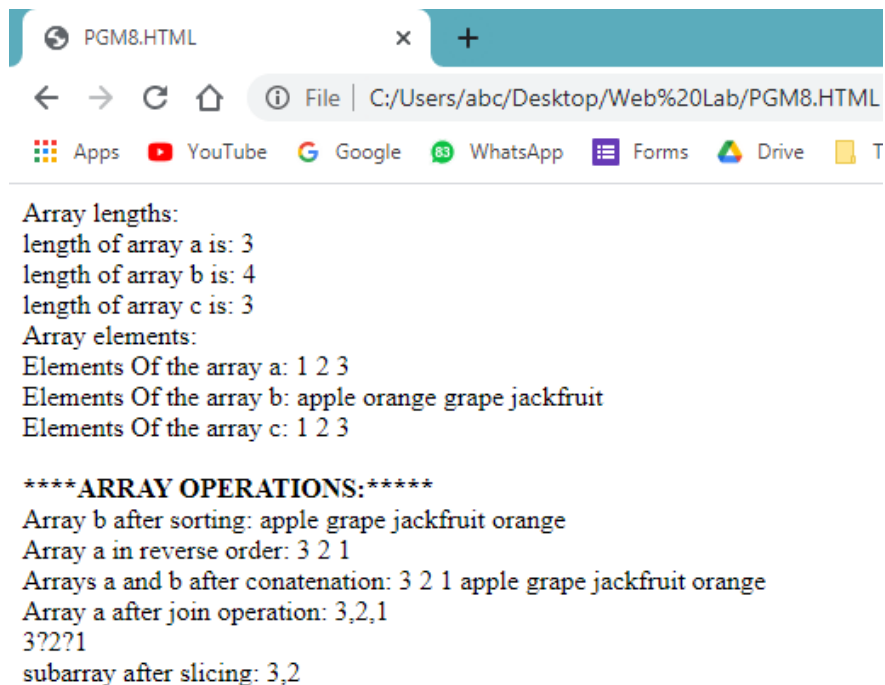
var f=a.join('?');
document.write(f);

document.writeln("<br>subarray after slicing:");
var g=a.slice(0,2);
document.write(g);

</script>
</body>
</html>

```

## Output:



## Result:

Program executed successfully and obtained output

## PROGRAM 9

### MOUSE EVENTS

#### **Aim:**

Create a web page that illustrate the onMouseOver and onMouseOut event handlers

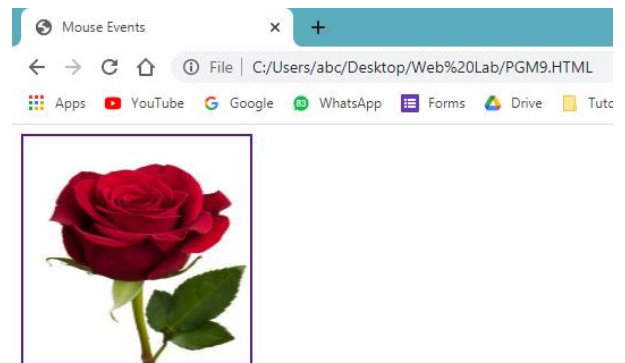
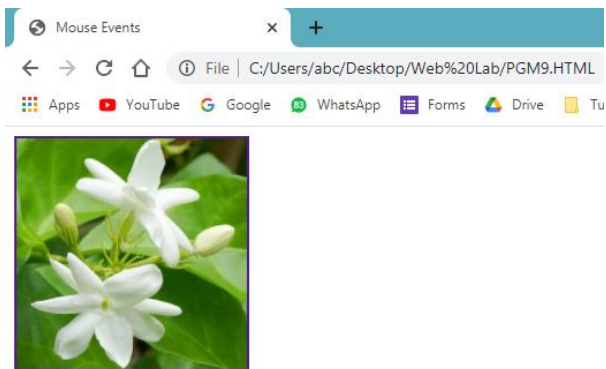
#### **Program:**

```
<html>
<head>
<title> Mouse Events</title>
</head>
<body>
  <a href="" onmouseover="document.images.link.src='jasmine.jpg';"
  onmouseout="document.images.link.src='roseflower.jpg';">

  </a>
</body>
</html>
```

#### **Output:**



#### **Result:**

Program executed successfully and obtained output



## PROGRAM 10

### EXPRESSION EVALUATION

**Aim:**

Develop an HTML page that accepts any mathematical expression, evaluates that expression and display the result of the evaluation.

**Program:**

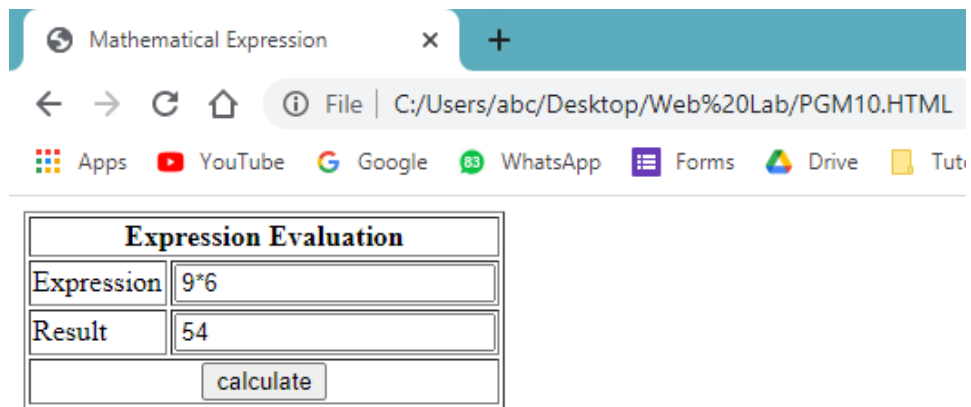
```
<html>
<head>
<title> Mathematical Expression</title>
<script type="text/javascript">
function math_exp()
{
var x=document.form1.exptext.value;
var result=eval(x);
document.form1.resulttext.value=result;
}
</script>
</head>
<body>
  <form name="form1">
    <table border="1">
      <tr>
        <th colspan="2">Expression Evaluation</th>
      </tr>

      <tr>
        <td>Expression</td>
        <td><input type="text" name="exptext"/></td>
      </tr>

      <tr>
        <td>Result</td>
        <td><input type="text" name="resulttext"/></td>
      </tr>

      <tr align="center">
        <td colspan="2" align="center"><input type="button"
        value="calculate" onClick="math_exp()"/></td>
      </tr>
    </table>
  </form>
</body>
</html>
```

## Output:



The screenshot shows a web browser window with a single tab titled "Mathematical Expression". The address bar displays the file path "C:/Users/abc/Desktop/Web%20Lab/PGM10.HTML". Below the address bar, there are several quick launch icons: Apps, YouTube, Google, WhatsApp (with 83 notifications), Forms, Drive, and Tutorials. The main content area features a form titled "Expression Evaluation". The form has two input fields: "Expression" containing "9\*6" and "Result" containing "54". A "calculate" button is located at the bottom of the form.

Expression Evaluation	
Expression	9*6
Result	54
<input type="button" value="calculate"/>	

## Result:

Program executed successfully and obtained output

## PROGRAM 11

### PRIME NUMBERS

#### **Aim:**

Write a Javascript program to print the prime numbers within a range.

#### **Program:**

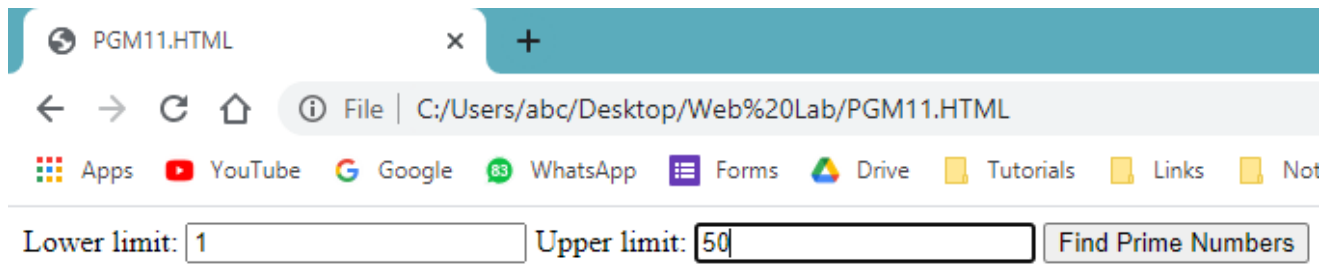
```
<html>
<body>

<script language="javascript">
function calcPrimes()
{
var a=document.prime.low.value;
var b=document.prime.up.value; var n;
var i;
for(n=a;n<=b;n++)
{
    for(i=2;i<n;i++)
    {
        if(n%i==0)
        {
            break;
        }
    }
    if(i==n)
    {
        document.write("<br>" + n)
    }
}
}
</script>

<form name="prime">
Lower limit: <input type="text" name="low" />
Upper limit: <input type="text" name="up" />

<input type="button" value="Find Prime Numbers" onclick="calcPrimes()" >
</form>
</body>
</html>
```

## Output:

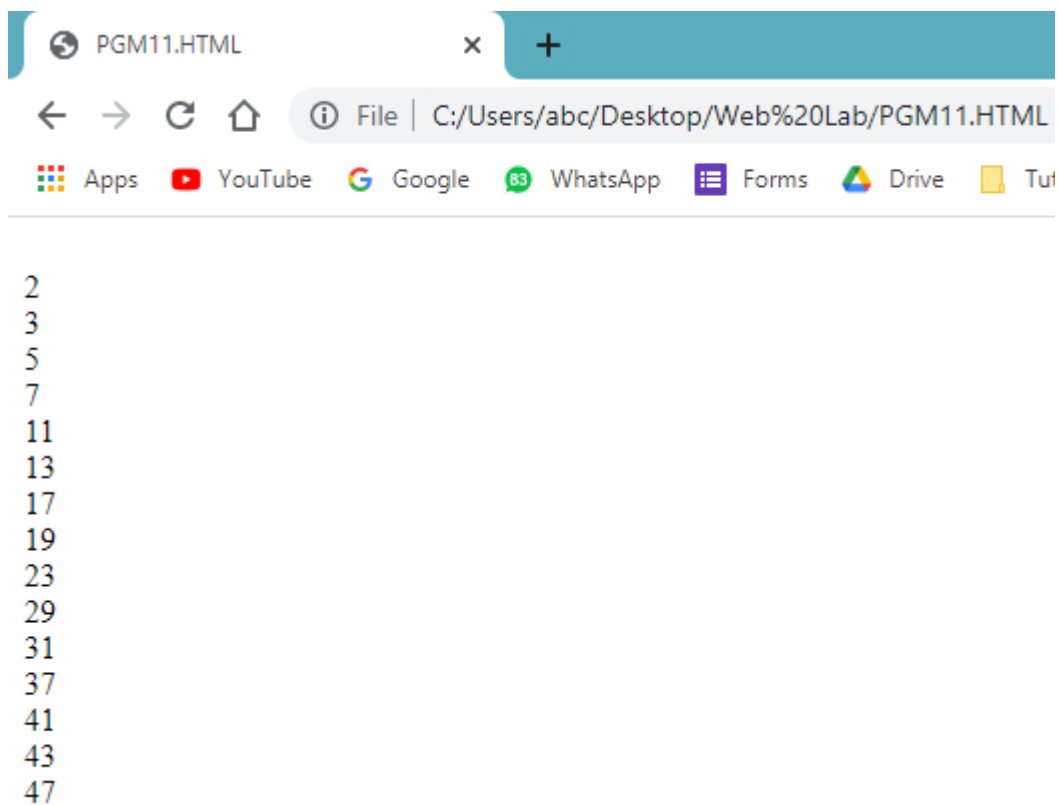


PGM11.HTML x +

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Lower limit: 1 Upper limit: 50 Find Prime Numbers



PGM11.HTML x +

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2  
3  
5  
7  
11  
13  
17  
19  
23  
29  
31  
37  
41  
43  
47

## Result:

Program executed successfully and obtained output

## PROGRAM 12

### FACTORIAL

#### Aim:

Write a Javascript program to find the factorial of a number.

#### Program:

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

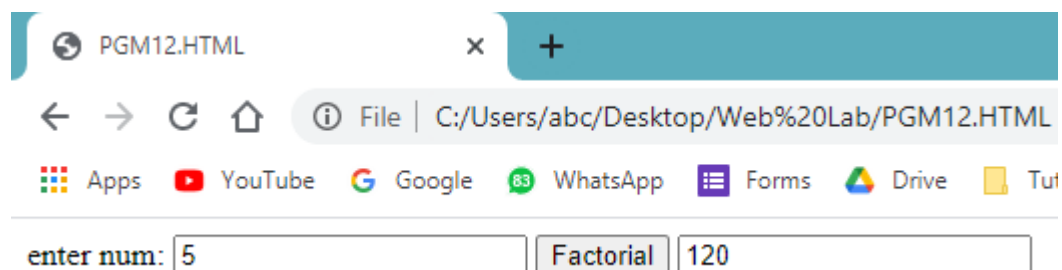
function show()
{
    var i,no,fact; fact=1;
    no=Number(document.getElementById("num").value);
    for(i=1;i<=no;i++)
    {
        fact=fact*i;
    }
    document.getElementById("answer").value=fact;
}

</script>

</head>

<body>
    enter num: <input type="text" id="num">
    <button onClick="show()">Factorial</button>
    <input type="text" id="answer">
</body>
</html>
```

#### Output:



**Result:**

Program executed successfully and obtained output

```
//jas.html
<html>
<body>
    <h1> JASMINE </h1>

    
    <br>
    <b> You selected Jasmine </b>
    <br>
    <a href="pgm4.html"> Go home </a>
</body>
</html>
```

```
//rose.html
<html>
<body>
    <h1> ROSE FLOWER </h1>

    
    <br>
    <b> You selected Roseflower </b>
    <br>
    <a href="pgm4.html"> Go home </a>
</body>
</html>
```

```
//sun.html
<html>
<body>
    <h1> SUN FLOWER </h1>

    
    <br>
    <b> You selected Sunflower </b>
    <br>
    <a href="pgm4.html">Go home</a>
</body>
</html>
```