User Interface

This is Heading 1
This is Heading 2
This is Heading 3
This is Heading 4
This is Heading 5
This is Heading 6

This is a paragraph
This is bold text
This text is italic
W3School

image

Output

HTML tags × +
file: C:MCA/tags.html

This is Heading1
This is Heading2
This is Heading3
This is Heading 4
This is Heading 5
This is Heading 6

This is paragraph
This is bold text
This text is italic
W3School

PROGRAM - 1

Aim

Create a HTML file to demonstrate the use of different tags

code

```
<html>
<head>
<title> HTML tags </title>
</head>

<body>
<h1> This is Heading 1 </h1>
<h2> This is Heading 2 </h2>
<h3> This is Heading 3 </h3>
<h4> This is Heading 4 </h4>
<h5> This is Heading 5 </h5>
<h6> This is Heading 6 </h6>
<hr>
<p> This is a Paragraph </p>
<b> This is bold text </b>
<i> This text is italic </i>
<a href="https://www.w3schools.com"> w3School </a>
<img src="image.png" width="50px" height="50px" >

</body>
</html>
```

IMAGE

User interface

main.html

Welcome

- Go to Table page
- Go to Image page
- Go to Link within page

table.html

Table Example

Name	Age	City
Nihal	24	Calicut
Farhan	22	Calicut

Back to Main page

image.html

Flower.jpg

Back to Main page

PROGRAM-2

Aim

Create a HTML file to linke to different HTML page which Contains images, tables and also link within a page

Code

main.html

```
<html>
<body>
<h3> Welcome </h3>
<ul>
  <li> <a  href="table.html" > Go to Table page </a> </li>
  <li> <a  href="image.html" > Go to image page </a> </li>
  <li> <a  href="link_within.html" > Go to Link within page </a> </li>
</ul>
</body>
</html>
```

table.html

```
<html>
<head>
<title> Table Page </title>
</head>
<body>
<h1> Table Example </h1>
<table  border="2" >
<tr>
   <th> Name </th>
   <th> Age  </th>
   <th> City  </th>
</tr>
<tr>
```

Link within.html

- Go to Section1
- Go to section2

Section 1

This is the Content of Section 1

Section 2

This is the Content of Section2

Back to Main Page

Output

← → file: C:MCA/Main.html

Welcome

- Go to Table Page
- Go to Image Page
- Go to Link within Page

```
    <td> Nihal </td>
    <td> 24 </td>
    <td> Calicut </td>
  </tr>
  <tr>
    <td> Farhan </td>
    <td> 22 </td>
    <td> Calicut </td>
  </tr>
</table>
<p> <a href="man.html"> Back to Main Page </a> </p>
</body>
</html>
```

image.html

```
<html>
<head>
<title> Image Page </title>
</head>
<body>
<img src="flower.jpg" width="100" height="100" >
<p> <a href="main.html" >Back to Main Page </a> </p>
</body>
</html>
```

Link_within.html

```
<html>
<head>
<title> Link with Page </title>
</head>
<body>
<Ul>
```

Table page x) +

← → file: C:MCA/table.html

Table Example

Name	Age	City
Nihal	24	Calicut
Farhan	22	Calicut

Back to Main page

image Page x) +

← → file: C:MCA/image.html

flower.jpg

Back to Main page

Link within Page x) +

← → file: C:MCA/Link-within.html

- Go to section1
- Go to section2

Section1
This is the Content of section1

Section2
This is the Content of section2

Back to Main Page

```
<li> <a href="#Section1" > Go to section1 </a> </li>
<li > <a href="#section2" > Go to section 2 </a> </li>
</ul>

<h2 id="Section1" > Section 1 </h2>
<p> This is the content of Section 1 </p>

<h2 id="Section2" > Section 2 </h2>
<p> This is the Content of section 2 </p>

<p> <a href="main.html" > Back to Main Page </a> </p>

</body>
</html>
```

PROGRAM-3

Aim

Create a HTML page with different types of frames such as floating frame, Navigation frame & Mixed frame

Code

Main.html

```
<html>
<head>
 <title> Frameset </title>
</head>
<frameset cols="20%,80%">
   <frame  src="navigation.html">
      <frameset  rows="40%,*">
          <frameset  cols="50%,50%">
                <frame  src="mixed_frame.html">
                <frame  src=""  name="Content frame">
           </frameset>
       <frame  src="floating_frame.html">
      </frameset>
</frameset>

</html>
```

navigation.html

```
<!DOCTYPE html>
<html>
<head>
   <title> Navigation </title>
</head>
<body>
    <h2> Navigation </h2>
    <a  href="home.html"  target="Content frame"> Home </a> <br>
    <a  href="
    <a  href="
```

```
  <a  href=
</body>
</html>
```

mixed_frame.html

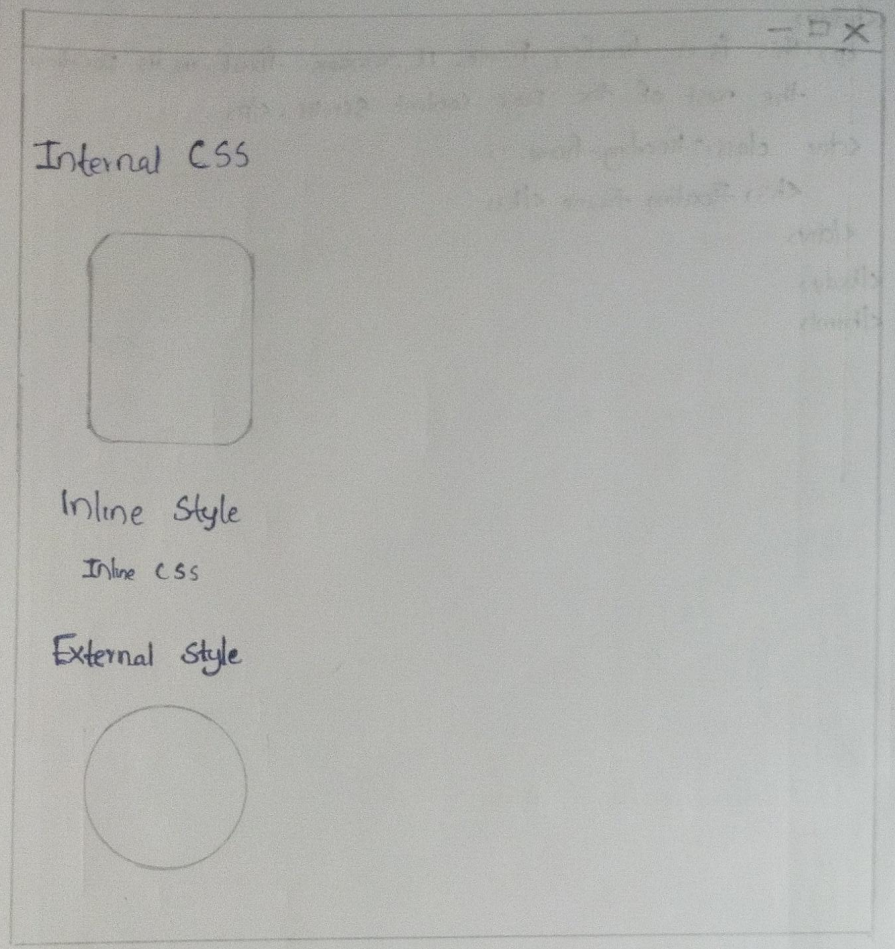
```
<html>
<head>
  <title> Mixed Frame </title>
</head>
<body>
  <h3> Mixed Frame </h3>
  <p> This is a Mixed frame that can contain both Static and scrollable
      Content.. </p>
</body>
</html>
```

floating_frame.html

```
<html>
<head>
  <title> Floating Frame </title>
<Style>
   body{
    height : 600px;
    }
  .floating-frame {
    width : 200px;
    height : 200px;
    background-color : #f4f4f4;
    border : 2px Solid #ccc;
    Position : fixed;
      top : 50px;
      right : 20px;
      Padding : 15px;
      box-shadow : 0px 4px 8px rgba(0,0,0,0.2);
    }
```

```
    </style>
</head>
<body>
  <p>This is a floating frame. It remains fixed in its position while
      the rest of the page content scrolls.</p>
  <div class="floating-frame">
      <h3>Floating frame</h3>
  </div>
</body>
</html>
```

User interface



PROGRAM - 4

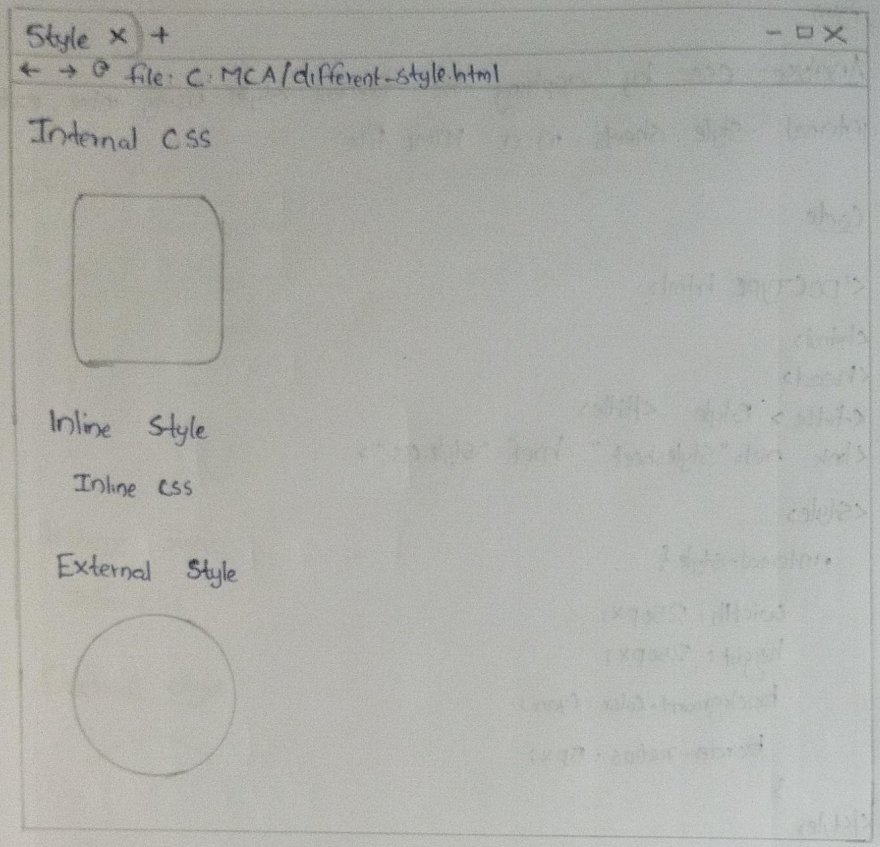
Aim

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

Code

```
<!DOCTYPE html>
<html>
<head>
<title> Style </title>
<link rel="Stylesheet" href="style.css">
<Style>
  .internal-style {
      width: 250px;
      height: 250px;
      background-color: cyan;
      border-radius: 5px;
    }
</style>
</head>
<body>
<h3> Internal CSS </h3>
<div class="internal-style"> </div>

<h3> Inline Style </h3>
<p Style="background-color: yellow; Color: red; font-size: 18px;">
    Inline CSS </p>

<h3> External Style </h3>
<div class="external">
</body>
</html>
```

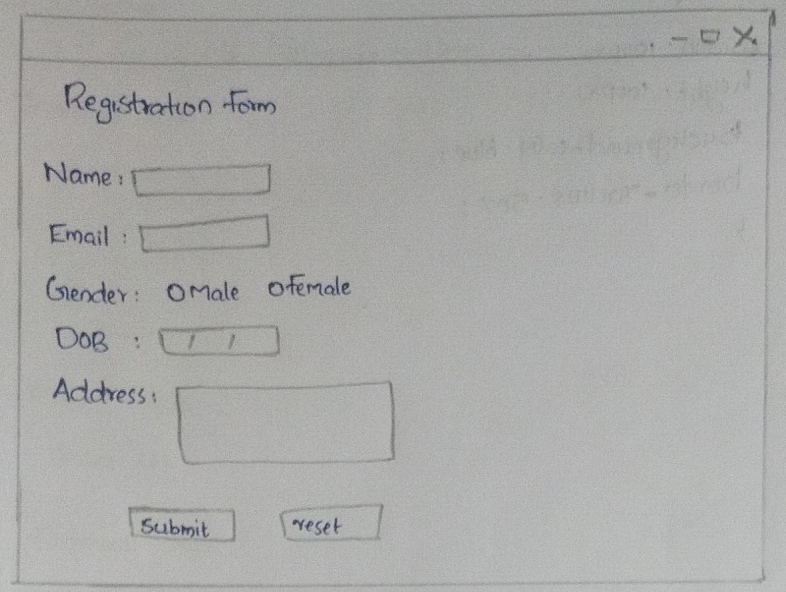
output



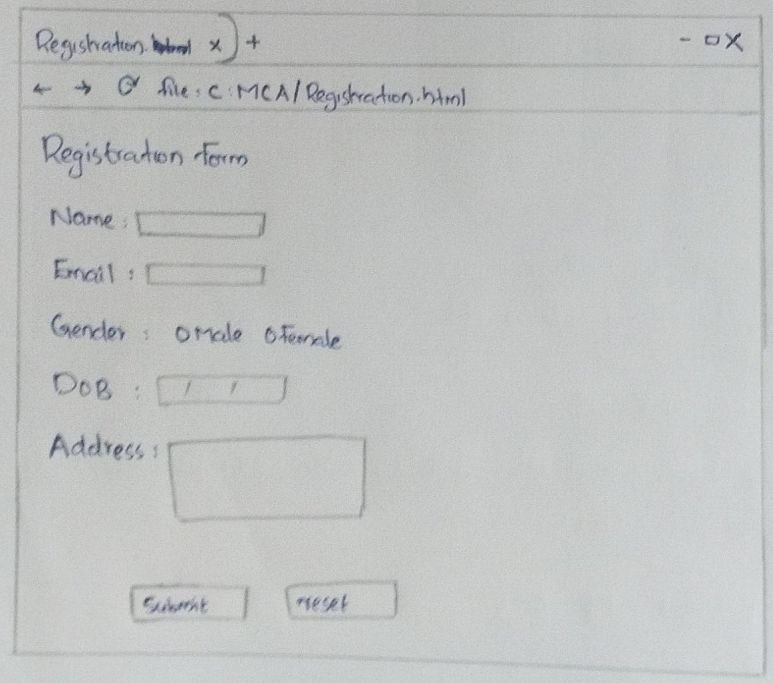
Style.css

```
.external {
    width : 100px;
    height : 100px;
    background-color : blue ;
    border-radius : 50% ;
}
```

User interfac



Output



PROGRAM - 5

Aim

Demonstrate a registration form using HTML

Code

```
<html>
<head>
<title> Registration form </title>
</head>
<body> <form> <h1> Registration form </h1>
<table>
 <tr>
   <td> <label> Name : </label> </td>
   <td> <input type="text" > </td>
 </tr>
 <tr>
   <td> <label> Email : </label> </td>
   <td> <input type="email" > </td>
 </tr>
 <tr>
   <td> <label> Gender : </label> </td>
   <td> <input type="radio" > Male
        <input type="radio" > Female
   </td>
</tr>
<tr>
  <td> <label> DOB : </label> </td>
  <td> <input type="date" > </td>
</tr>
  <td> <label> Address </label> </td>
  <td> <textarea rows="5" col="30" > </textarea> </td>
</tr>
```

```
<tr>
  <td> <input type="Submit" value="Submit"> </td>
  <td> <input type="reset" value="reset"> </td>
</tr>
</table>
</form>
</body>
</html>
```

User interface

Predefined functions of string and Math Object

Rounding a number using Math.round 4

character at 0th position of hello world is : h

Value of 50.65 after using Math.Ceil is : 51

Web programming toUpperCase : WEB PROGRAMMING

Output

predefined functions x +

← → file. c : MCA/functions.html

Predefined functions of string and Math object

Rounding a number using Math.round 4

character at 0th position of hello world is : h

Value of 50.65 after using Math.Ceil is : 51

Web programming toUpperCase : WEB PROGRAMMING

PROGRAM - 6

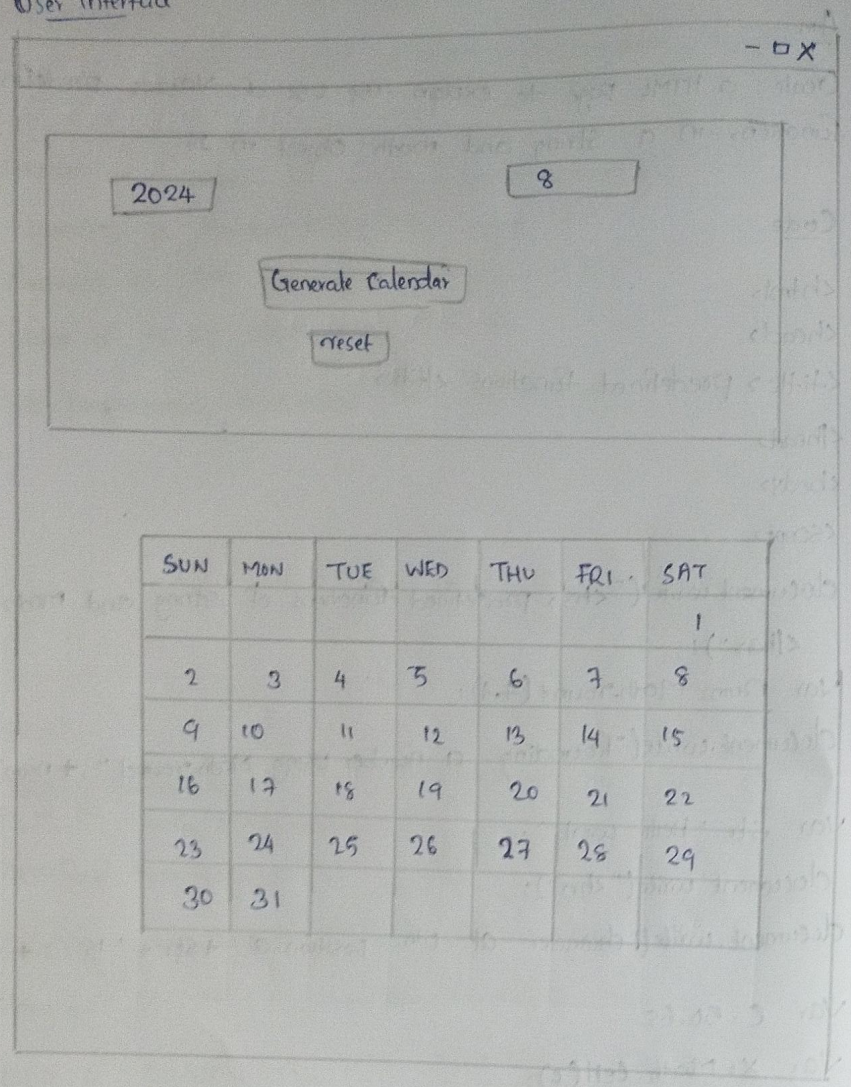
Aim

Create a HTML page to explain the use of various predefined functions in a string and math object in JS

Code

```
<html>
<head>
<title> predefined functions </title>
</head>
<body>
<script>
document.write ("<h3> predefined functions of string and Math object
  </h3>");
var num= Math.round (4.4);
document.write("Rounding a number using Math.round ", + num);

var str= "Hello world";
document.write("<br>");
document.write("character at 0th position of " + str + " is : " + str.charAt(0));

var c = 50.65
var x = Math.Ceil(c);
document.write("<br> Value of " + c + " after using Math.Ceil is :" + x);

var w = "web programming";
var U = w.toUpperCase();
document.write ("<br>web programming to uppercase " + U);
</script>
</body>
</html>
```

User interface



PROGRAM-7

Aim

Generate the Calendar Using Javascript Code by getting the year from the User.

Code

```
<html>
<head>
  <title> Calendar </title>
<Style>
. selection
{
text-align : Center;
margin-bottom : 2em;
background-color : rgb(174, 179, 181);
width: 100%;
}
#year-get, #month get {
   Padding: 5px;
   width: 75%;
  }
input{
   Padding: 5px;
  }
. tabselection {
   margin-left : auto;
   margin-right : auto;
    width : 100%;
  }
table{
  Padding : 5px;
  }
```

Output

Calendar x +

← → file: C:MCA/calendar.html

2024 8

Generate Calendar

reset

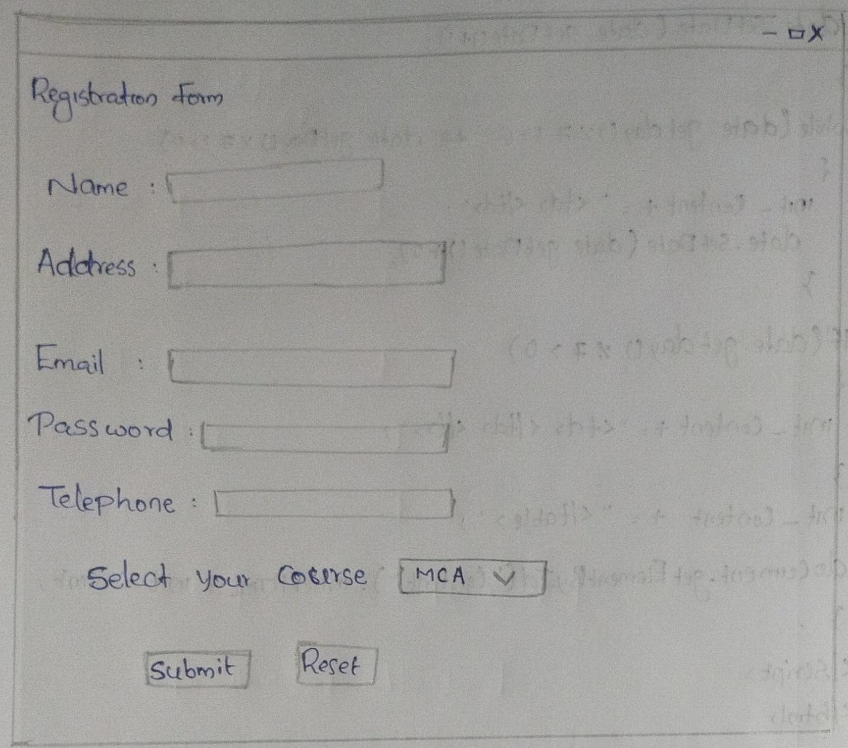
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

```
tr {
}
.selrow {
  border:none;
}
td, th {
  Padding:10px;
  border: 1px solid black;
}
.selcol {
  Padding: 0px;
  border:none;
  text-align: center;
}
# Calendar {
  border-collapse: collapse;
  margin-left: auto;
  margin-right: auto;
}
# resetbtn {
  background-color: red;
  border: none;
  color: white;
}
# subtn {
  background-color: green;
  border: none;
  color: white;
}
</style>
</head>
<body>
<div class="selection">
<table class="tab selection" cellspacing="0">
<tbody>
```

```
<tr class="selrow">
    <td class="selcol">
    <input id="year_get" type="number">
    <input type="number" placeholder="month">
    </td>
</tr>
<tr class="selrow">
    <td colspan="2" class="selcol">
    <input type="reset" value="reset"
    id="resetbtn" onclick="location.reload();">
    </td>
</tr>
</tbody>
</table>
</div>
<div id="content"></div>
</body>
<script>
function generate(){
Var init_Content = "<table border="1" id="Calendar"><tr><th>SUN</th>
<th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th>
<th>SAT</th></tr>";

Var year_get = document.getElementById("year_get").value;
Var month_get = document.getElementById("month_get").value;

month_get = 1;
Var date = new Date(year_get, month_get);
Var day = date.getDay();
for (var i=0; i< day; i++)
{
  init_content += "<td></td>";
}
while (date.getmonth += month_get)
{
  init_content += "<td>" + date.getDate() + "</td>";
  IF(date.getDay() % 7 == 6)
  {
```

```
    init_Content += "</tr> <tr>";
  }
 date.SetDate (date.getDate()+1);
}
while (date.getday()%7 != 6 && date.getDay()%7 != 0)
 {
   init_Content += "<td> </td>";
    date.SetDate (date.getDate()+1);
  }
If (date.getday() %7 > 0)
{
 init_Content += "<td> </td> </tr>";
}
init_Content += "</table>";
document.getElementById("Content").innerHTML = init_Content;
}
</script>
</html>
```

User interface



PROGRAM-8

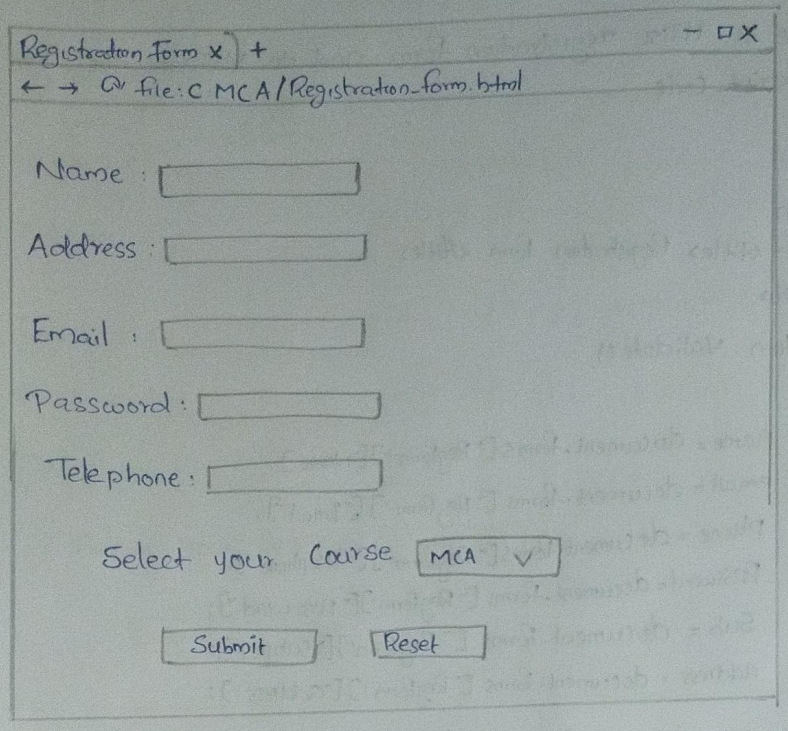
Aim

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

Code

```
<html>
<head> <title> Registration form </title>
<script>
function validate()
{
Var name = document.forms["Regform"]["Name"];
Var email = document.forms["Regform"]["Email"];
Var phone = document.forms["Regform"]["Telephone"];
Var Password = document.forms["Regform"]["pass word"];
Var Sub = document.forms["Regform"]["subject"];
Var address = document.forms["Regform"]["address"];

If (name.Value == "")
{
window.alert("Please enter your name.");
name.focus();
return false;
}
If (address.value == "")
{
window.alert("please enter your address");
address.focus();
return false;
}
If (email.value == "")
{
window.alert("Please enteravalid email address");
email.focus();
return false;
```

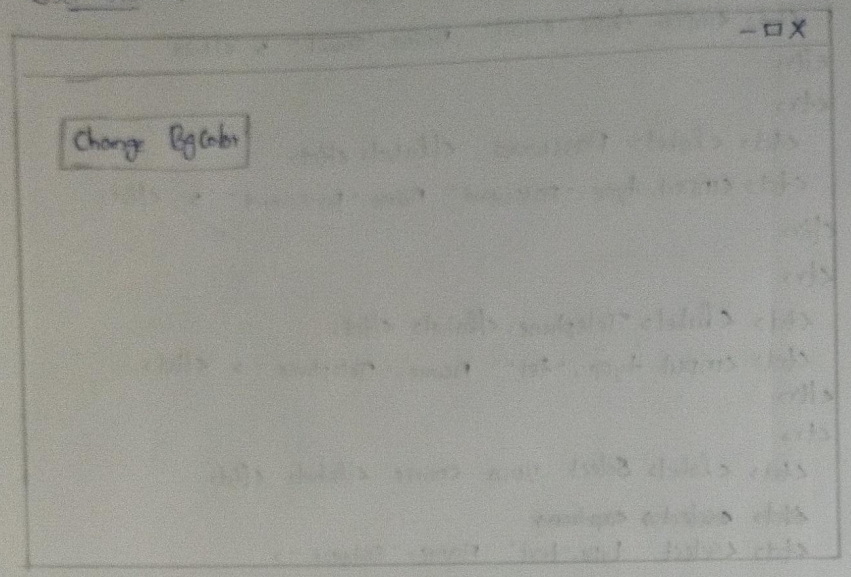
Output



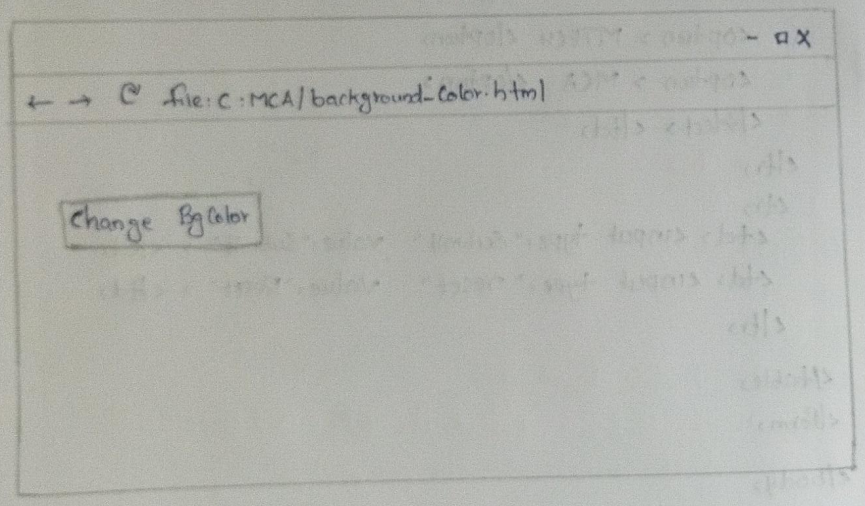

```
    }
  If (phone.value = = " ")
  {
window.alert (" please enter your telephone number ");
  phone.focus();
  return false;
  }
 If (password.value = = " ")
  {
  window.alert (" please enter your Password ");
  Password.focus();
  return false;
  }
 If (Sub.value = = " ")
  {
  alert (" please enter your Course ");
   Sub.focus();
   return false;
   }
  return true;
  }
</script>
</head>
<body>
<h1> Registration form </h1>
<form name = " Regform " onSubmit = " return validate() ">
<table>
  <tr>
    <td> <label> Name : </label> </td>
    <td> <input type = " text " size = " 65 " name = " Name " > </td>
  </tr>
  <tr>
    <td> <label> Address </label> </td>
    <td> <input type = " text " size = " 65 " name = " Address " > </td>
  </tr>
```

```
<tr>
 <td> <label> Email </label> </td>
 <td> <input type="email" name="email" > </td>
</tr>
<tr>
 <td> <label> Password: </label> </td>
 <td> <input type="password" name="password" > </td>
</tr>
<tr>
 <td> <label> Telephone: </label> </td>
 <td> <input type="tel" name="Telephone" > </td>
</tr>
<tr>
 <td> <label> Select your course </label> </td>

 <td> <select type="text" name="subject" >
      <option > BTECH </option>
      <option > BCA </option>
      <option > MTECH </option>
      <option > MCA </option>
     </select> </td>
 </tr>
 <tr>
  <td> <input type="Submit" value="Submit" > </td>
  <td> <input type="reset" value="Reset" > </td>
 </tr>
</table>
</form>

</body>
</html>
```

User interface



Output



PROGRAM-9

Aim

Evaluating javascript event handling for every click of a button to change the background color of HTML

Code

```
<html>
<body>
<button type="button" onclick="bgchange()">Change BgColor</button>
<script>
var clr = ["red","blue","yellow","green","orange","brown"];
var l = clr.length;
var i=0;
function bgchange()
{
while (i<l)
{
document.getElementBy TagName("body")[0].style.backgroundColor = clr[i];
i = (i+1)%l;
return;
}
}
</script>
</html>
```

PROGRAM -10

Aim

Create a HTML Page to display a new image and text when the mouse comes over the existing content in the page using Javascript event handling

Code

```
<html>
<body>
<h1 id="text" > Image </h1> <br> <br>
<img id="img1" onmouseover="myfunction1()" onmouseout="myfunction2()"
src="image.png" height="40%" width="30%">
<script>
function myfunction1()
{
document.getElementById("img1").src="image1.png";
document.getElementById("txt").innerHTML="Image1";
}
function myfunction2()
{
document.getElementById("img1").src="image2.png";
document.getElementById("txt").innerHTML="Image 2";
}
</script>
</body>
</html>
```

User interface

- □ X

Online Exam

Q1. Full Form of HTML?
- Hyper Text Markup Link
- Hyper Text Main Language
- Hyper Text Markup Language
- Hyper Text Multiple Link

Q2. 1 Byte = ?
- a. 16 bits
- b. 8 bits
- c. 10 bits
- d. 32 bits

Q3. Select the input device?
- a. Keyboard
- b. printer
- c. Monitor
- d. Speaker

Q4. C is invented by?
- a. Rasmus Ledorf
- b. Alan Turning
- c. Dennis Richie
- d. James Gosling

Q5. Select non-linear data structure?
- a. Stack
- b. Queue
- c. Array
- d. Tree

SUBMIT

PROGRAM - 11

Aim

Create a HTML page to show online exam using Javascript

Code

```
<html>
<head>
  <title> Exam <title>
</head>
<body>
  <h1> Online Exam <h1>
  <form name="exm">
    <h2> Q1. Full Form of HTML? </h3>
    <ul type="none">
      <li> <input type="radio" name="q1" value="q1a" id="q1">
        a. Hyper Text Markup Link </li>
      <li> <input type="radio" name="q1" value="q1b" id="q1">
        b. Hyper Text Main Language </li>
      <li> <input type="radio" name="q1" value="q1c" id="q1">
        c. Hyper Text Markup Language </li>
      <li> <input type="radio" name="q1" value="q1d" id="q1">
        d. Hyper Text Multiple Link </li>
    </ul> <h2> Q2. 1 Byte = ? </h2>
  <ul type="none">
    <li> <input type="radio" name="q2" value="q2a" id="q2" > a. 16 bits </li>
    <li> <input type="radio" name="q2" value="q2b" id="q2" > b. 8 bits </li>
    <li> <input type="radio" name="q2" value="q2c" id="q2" > c. 10 bits </li>
    <li> <input type="radio" name="q2" value="q2d" id="q2" > d. 32 bits </li>
  </ul> <h2> Q3. Select the input device? </h2>
  <ul type="none">
    <li> <input type="radio" name="q3" value="q3a" id="q3" >
      a. Keyboard </li>
    <li> <input type="radio" name="q3" value="q3b" id="q3" >
      b. printer </li>
```

output

Exam x | +

← → file: C:MCA/ Exam.html

Online Exam

Q1. Full form of HTML?

- a. Hyper Text Markup Link
- b. Hyper Text Main Language
- c. Hyper Text Markup Language
- d. Hyper Text Multiple Link

Q2. 1 Byte = ?

- a. 16 bits
- b. 8 bits
- c. 10 bits
- d. 32 bits

Q3. Select the input device?

- a. keyboard
- b. printer
- c. Monitor
- d. Speaker

Q4. C is invented by?

- a. Rasmus Lederf
- b. Alan Turing
- c. Dennis Richie
- d. James Gosling

Q5. Select non-linear data structure?

- a. Stack
- b. Queue
- c. Array
- d. Tree

SUBMIT

```
<li> <input type="radio" name="q3" value="q3c" id="q3" > c. Monitor </li>
<li> <input type="radio" name="q3" value="q3d" id="q3" > d. Speaker </li>
</ul>
<h2> Q4. C is invented by? </h2>
<ul type="none">
  <li> <input type="radio" name="q4" value="q4a" id="q4" > a. Rasmus Lederf </li>
<li> <input type="radio" name="q4" value="q4b" id="q4" > b. Alan Turing </li>
<li> <input type="radio" name="q4" value="q4c" id="q4" > c. Dennis Richie </li>
<li> <input type="radio" name="q4" value="q4d" id="q4" > d. James Gosling </li>
</ul>
<h2> Q5. Select non-linear data structure? </h2>
<ul type="none">
  <li> <input type="radio" name="q5" value="q5a" id="q5" > a. Stack </li>
<li> <input type="radio" name="q5" value="q5b" id="q5" > b. Queue </li>
<li> <input type="radio" name="q5" value="q5c" id="q5" > c. Array </li>
<li> <input type="radio" name="q5" value="q5d" id="q5" > d. Tree </li>
</ul>
<br> <br>
<input type="button" onclick="mark();" value="SUBMIT">
</form>
<Script>
function mark()
{
  var a= document. exm. q1. value;
  var b= document. exm. q2. value;
  var c= document. exm. q3. value;
  var d= document. exm. q4. value;
  var e= document. exm. q5. value;

  var m=0;
  if ( a== "q1c")
  {
    m= m+1;
```

```
    }
  If(b=="q2b")
   {
    m=m+1;
   }
  If(c=="q3a")
   {
    m=m+1;
   }
  If(d=="q4c")
   {
    m=m+1;
   }
  If(e=="q5d")
   {
    m=m+1;
   }
  alert("You have got "+m+" Marks");
  }
</script>
</body>
</html>
```

User interface

After swapping a=20 and b=10

Output

Swap.php

localhost/swap.php

After swapping a=20 and b=10

PROGRAM-12

Aim

Write a PHP program to swap two numbers

Code

```
<?PHP
  $a=10;
  $b=20;
  $temp=$a;
  $a=$b;
  $a=$temp;
  echo "After swapping a=", $a, " and b=", $b;
?>
```

User interface

1634 is not an armstrong number

Output

Armstrong.php × +

← → localhost / Armstrong.php

1634 is not an Armstrong number

PROGRAM-13

Aim

Check whether the number is Armstrong or not using PHP

Code

```
<?php
function Armstrong($number)
{
 $sum=0;
 $temp = $number;
 $num_digits = Strlen($number);
 while($temp !=0)
  {
   $digit = $temp %10;
   $ Sum + pow($digit , $num_digits);
   $temp /= 10 ;
  }
 return $sum = = $number;
}
$num= 1634;
If ( Armstrong($num))
 {
   echo " $num is Armstrong number " ;
 }
 else {
     echo " $num is not Armstrong number " ;
     }
?>
```