LAB CYCLE 2

Submitted By:

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S1 MCA 112

Question 1

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

Program Code:

```
<html>

<head>

<title>String</title>

</head>

<body>

<script>

var num=Math.abs(-6)

document.write("Absolute value",+num);

var str="This is my sample string";

document.write("<br>");

document.write("Char at 8th position  is:"+str.charAt(8));

document.write("<br>Index of my : "+str.indexOf("my"));

var c=4

var x=Math.sqrt(c)

document.write("<br>Square root is"+x);

var lw="lower to upper";

document.write("<br>Changed to upper:"+str.toUpperCase(lw));

var power=Math.pow(2,3);
```

document.write("
 Power of the number is"+power);

</script>

</body>

</html>

Output:

Absolute value6
Char at 8th position is:m
Index of my : 8
Square root is2
Changed to upper:THIS IS MY SAMPLE STRING
Power of the number is8

Question 2

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

Program Code:

```
<html>

<head>

<script language="javascript">

function day_title(day_name)

{

document.write("<td align=center width=35
bgcolor=lightblue><b>"+day_name+"</b></td>");

}

function fill_table(month,month_len)

{

day=1;

document.write("<table border=1 cellspacing=3 cellpadding=3%>");

document.write("<td colspan=7 align=center
bgcolor=red><b>"+month+" "+year+"</b><tr>");

day_title("Sun");

day_title("Mon");

day_title("Tue");

day_title("Wed");

day_title("Thu");
```

```javascript
day_title("Fri");

day_title("Sat");

document.write("</tr><tr>");

for(var i=1; i<start_day;i++)

{

document.write("<td>");

}

for(var i=start_day; i<8;i++)

{

document.write("<td align=center bgcolor=silver>"+day+"</td>");

day++;

}

document.write("<tr>");

while(day<=month_len)

{

for(var i=1; i<=7 && day<=month_len;i++)

{

document.write("<td align=center bgcolor=silver>"+day+"</td>");

day++;

}

document.write("<tr>");

start_day=i;
```
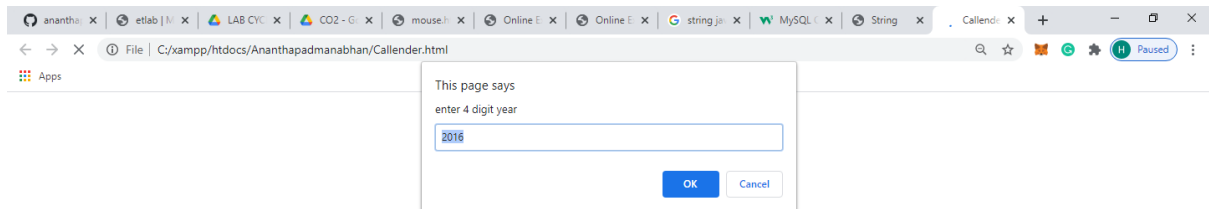
```javascript
}
document.write("</tr></table><br>");

}
year=prompt("enter 4 digit year ",2016);
today=new Date("January 1, "+year);
start_day=today.getDay()+1;
fill_table("January", 31);
if (year%4==0)
fill_table("February", 29);
else
fill_table("February", 28);
fill_table("March", 31);
fill_table("April", 30);
fill_table("May", 31);
fill_table("June", 30);
fill_table("July", 31);
fill_table("August", 31);
fill_table("September", 30);
fill_table("October", 31);
fill_table("November", 30);
fill_table("December", 31);
</script>
```
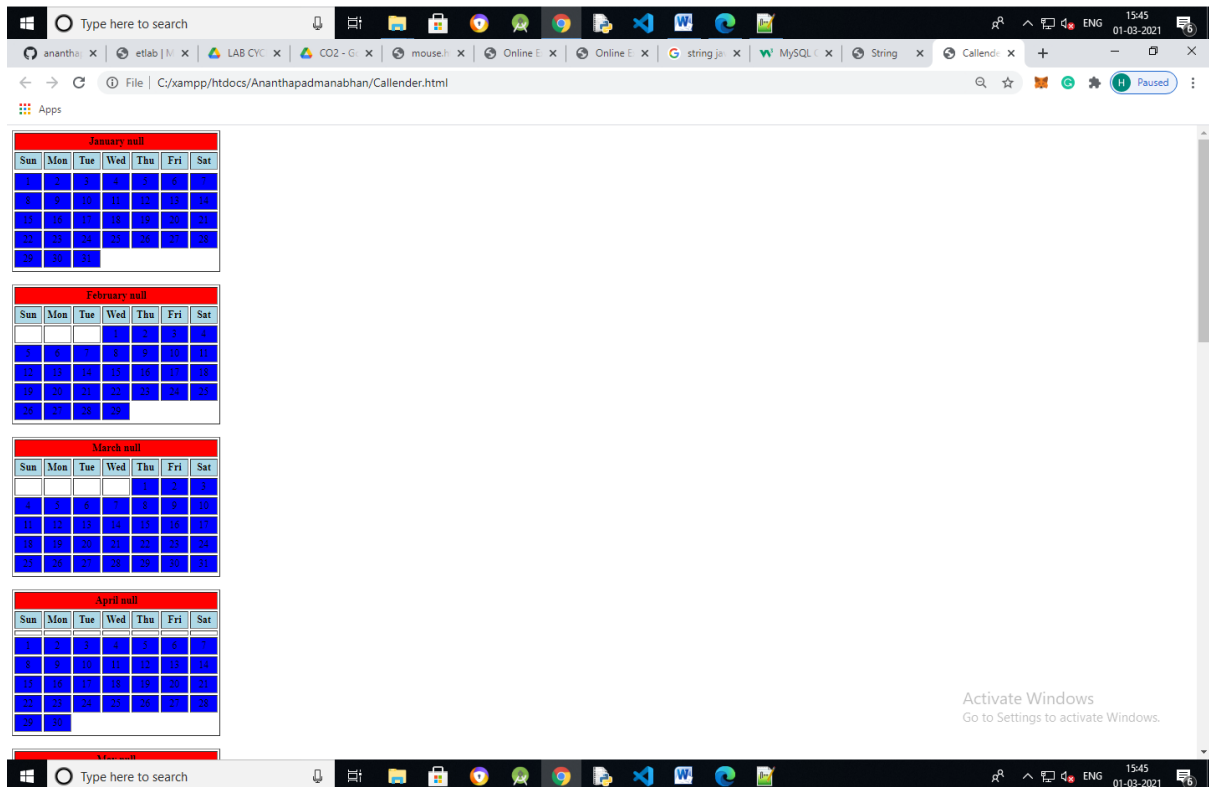
</head>

</html>

Output:

Question 3

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

Program Code:

```html
<html>
<head>
<script>
function REGISTRATION_FORM()
{
 var name =
 document.forms["RegForm"]["Name"];
 var email =
 document.forms["RegForm"]["EMail"];
 var phone =
document.forms["RegForm"]["Telephone"];
var what =
document.forms["RegForm"]["Subject"];
var password =
document.forms["RegForm"]["Password"];
var address =
document.forms["RegForm"]["Address"];
if (name.value == "") {
window.alert("Please enter your name.");
```

```javascript
name.focus();

return false; }

if (address.value == "") {

window.alert("Please enter your address.");

address.focus();

return false;

}

if (email.value == "") {

window.alert(

"Please enter a valid e-mail address.");

email.focus();

return false;

}

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 (what.selectedIndex =="") {

    alert("Please enter your course.");

    what.focus();

    return false;

    }

    return true;

    }

    </script>

    <style>

    div {

    box-sizing: border-box;

    width: 100%;

    border: 100px solid black;

    float: left;

    align-content:center;

    align-items: center;

    }

    form { margin: 1 auto; width: 600px; }

    </style>

    </head>
```

```html
<body>

<h1 style="text-align: center;">REGISTRATION FORM</h1>

<form name="RegForm"

onsubmit="return REGISTRATION_FORM()" method="post">

<p>Name: <input type="text" size="65" name="Name" /></p>

<br />

<p>Address: <input type="text" size="65" name="Address" /> </p>

<br />

<p>E-mail Address: <input type="text" size="65" name="EMail" /></p>

<br />

<p>Password: <input type="text" size="65" name="Password" /></p>

<br />

<p>Telephone: <input type="text" size="65" name="Telephone" /></p>

<br />

<p> SELECT YOUR COURSE

<select type="text" value="" name="Subject">

<option>BSC</option>

<option>MCA</option>

<option>B.COM</option>

<option>MSC</option>
```
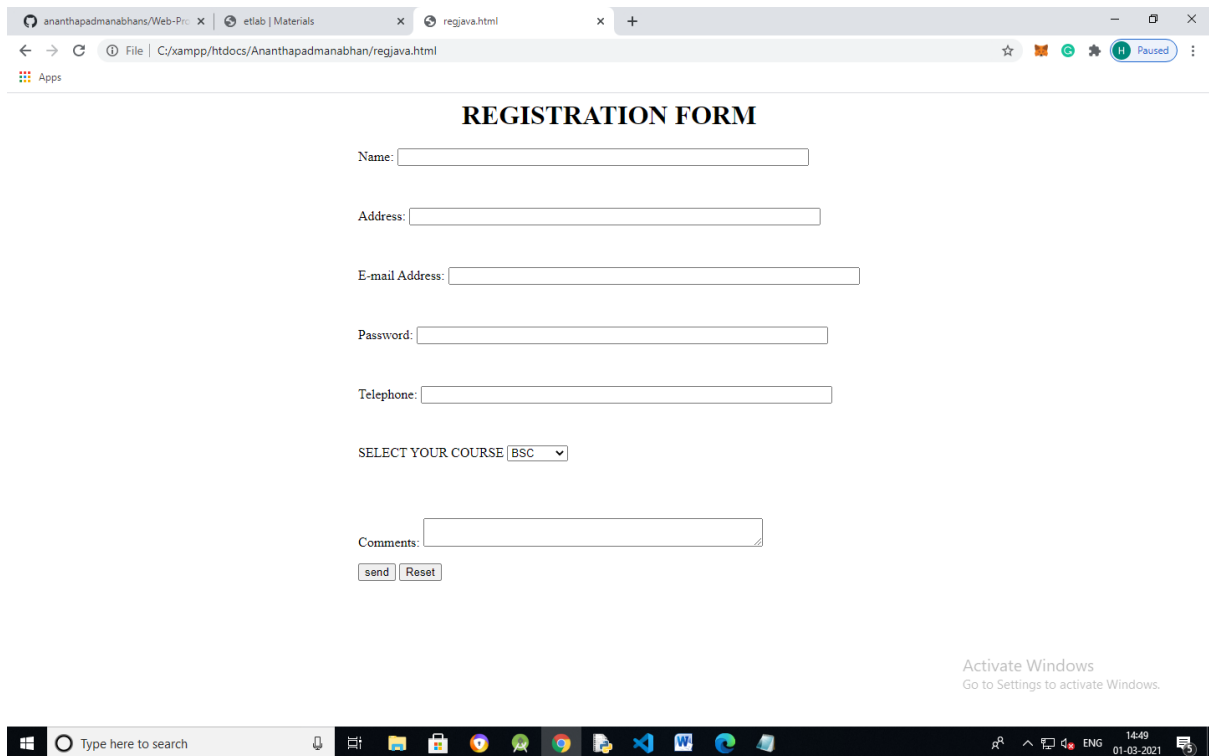
```html
<option>B.TECH</option>

</select>

</p>

<br />

<br />

<p>Comments: <textarea cols="55" name="Comment">
</textarea></p>

<p>

<input type="submit" value="send" name="Submit" />

<input type="reset" value="Reset" name="Reset" />

</p>

</form>

</body>

</html>
```

Output

REGISTRATION FORM

Name:

Address:

E-mail Address:

Password:

Telephone:

SELECT YOUR COURSE BSC

Comments:

send Reset

Activate Windows
Go to Settings to activate Windows.

Question 4

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

Program code:

```html
<html>
<head>
<script type="text/javascript">
function change_color() {
var color = 'green';


document.body.style.background= color;
}
</script>
</head>
<body>
<button onclick="change_color()" >Click to change colour</button>
</body>
</html>
```
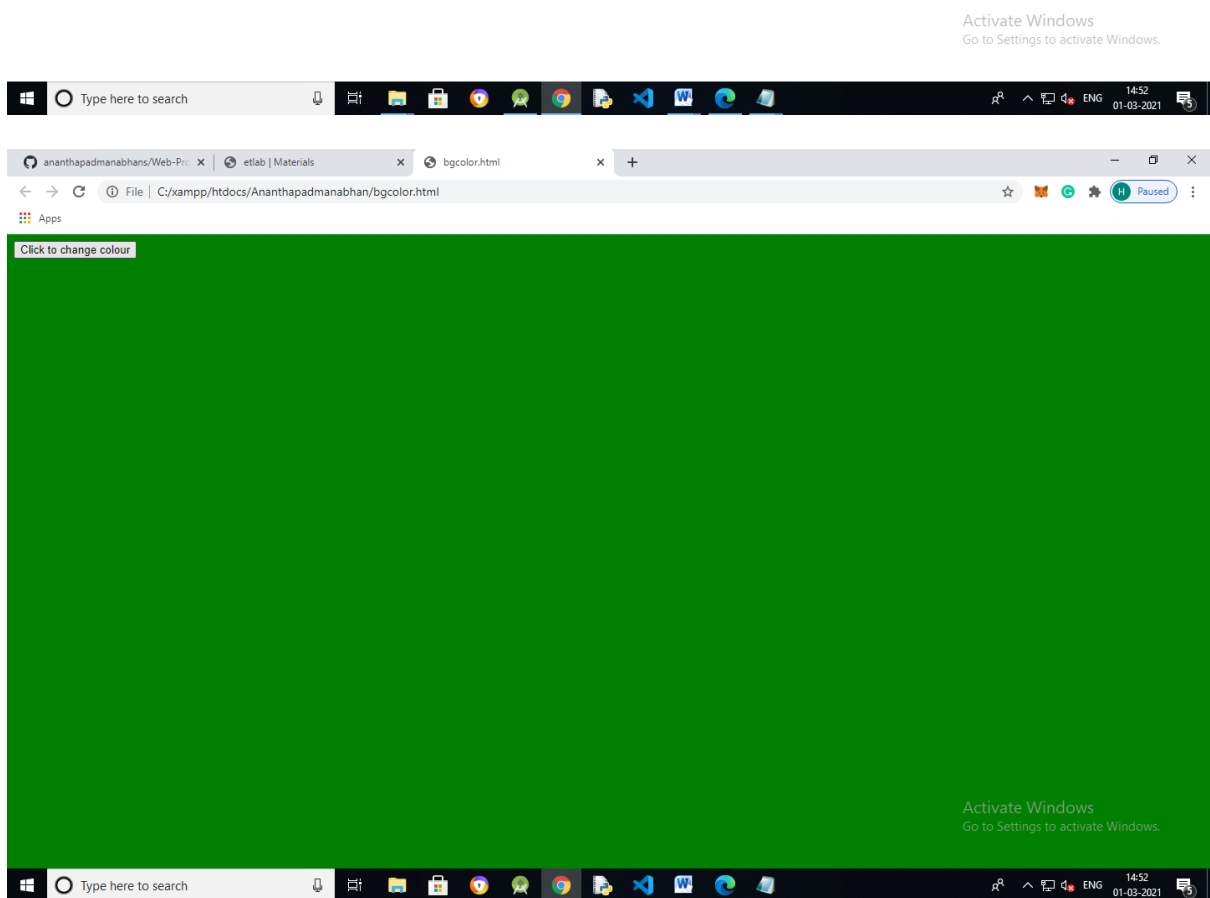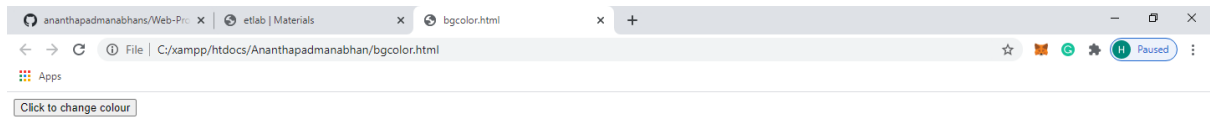
Question 5

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.

Program Code:

```
<html>

<head>

<script language="javascript">

function preload()

{

topon=new Image(150,100);

topon.src="http://tkmce.ac.in/wp-content/themes/tkm/images/tkmce_logo.png";

topoff=new Image(260,280);

topoff.src="http://tkmce.ac.in/wp-content/uploads/2014/09/founder.png";

}

function myMouseOn(n)

{

preload();

imageON=eval(n+"on.src");

document.images[n].src=imageON;

}

function myMouseOff(n)
```

```
{

imageOFF=eval(n+"off.src");

document.images[n].src=imageOFF;

}

</script>

</head>

<body >

<h1> Demo for mouse over</h1>

<a href="#" onMouseOut="myMouseOff('top')";
onMouseOver="myMouseOn('top')";>


<img src="Koala.jpg" alt="Show Next" name="top">


</a>

</body>

</html>
```
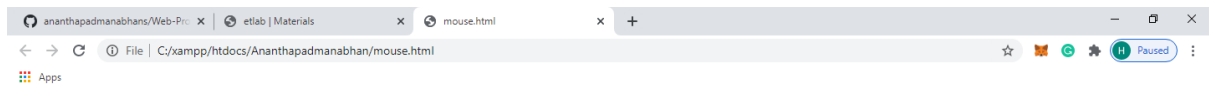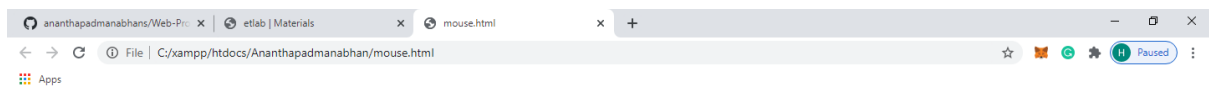
Outputs:

Question 6

Create a HTML page to show online exam using JavaScript.

Program Code:

```html
<html>
<title>Online Examination</title>
<script language="javascript">
   function exams(ans)
   {var i=0;
    if(ans.one[0].checked)
     i=i+1;
    if(ans.two[1].checked)
     i=i+1;
    window.alert("THANK YOU ATTENDING YOUR SCORE IS:"
i);}
</script>
<body style=background-color:cadetblue>
     <h1><center>ONLINE EXAMINATION</center></h1>
   <forms onsubmit="exams(this)">
     <p>
     <h2>1.How many sides does a rectangle have?</h2>
     <input type="radio" name="one" value="4">
     <label>4</label>
```

```html
        <input type="radio" name="one" value="6">
        <label>6</label>
        <input type="radio" name="one" value="8">
        <label>8</label><br><br></p>
        <p>
        <h2>2.Area of Rectangle is </h2>
        <input type="radio" name="two" value="l/b">
        <label>l/b</label>
        <input type="radio" name="two" value="lb">
        <label>lb</label>
        <input type="radio" name="two" value="l+b">
        <label>l+b</label><br><br></p>


        <input type="submit" value="submit">
        <input type="reset" value="reset">


    </forms>
</body>
</html>
```