

**Indira Gandhi Delhi Technical University
for Women**
(Established by Govt. of Delhi vide Act 09 of 2012)
(Formerly Indira Gandhi Institute of Technology)
Kashmere Gate, Delhi - 110006



LABORATORY FILE
for
Web Technologies

MCA 207

Submitted to:
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MCA, 3rd Sem
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LAB 4 WORK

Ques 7: Put validation checks on values entered by the user using JavaScript on:

(a) Student login form

HTML Code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Login Form</title>
    <script src="validation_login.js"></script>
    <link rel="stylesheet" href="validation_login.css">
</head>
<body onload='document.login.email.focus()>
    <div>
        <h2>Login Form</h2>
        <form name="login" onsubmit="return validateForm()">
            <label for="email">Email Id: </label>
            <input type="text" id="email" name="email" required><br><br>
            <label for="password">Password: </label>
            <input type="password" id="password" name="password"
            onkeyup='check();' required><br><br>
            <label for="cpassword">Confirm Password: </label>
            <input type="password" id="cpassword" name="cpassword"
            onkeyup='check();' required><br><br>
            <button type="submit" onclick="validateForm(document.login.email)">
            Login</button>
            <button type="reset">Clear</button>
        </form>
        <a href="reset%20password.html">Forget Password</a> <br> <br>
    </div>
</body>
</html>
```

CSS Code:

```
body
{
    background-color: black;
    padding-left: 550px;
    padding-top: 50px;
    padding-right: 500px;
    font-family: sans-serif;
}
```

```
div
{
    border: solid;
    padding: 50px;
    background-color: #DAF7A6;
}
```

JS Code:

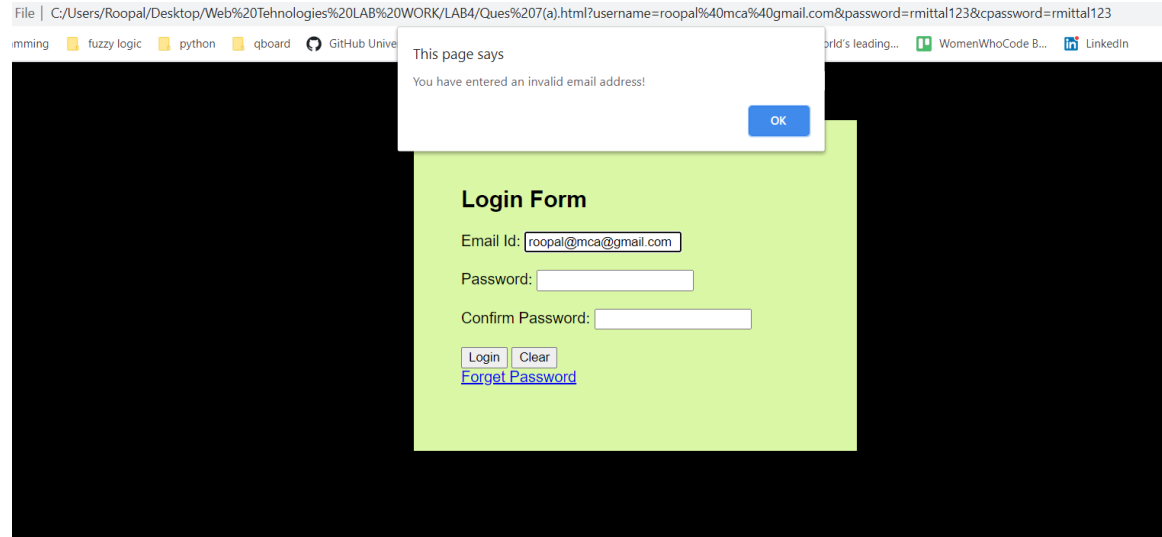
```
function validateForm(inputText)
{
    var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3}+$/;
    if(inputText.value.match(mailformat))
    {
        document.login.email.focus();
        return true;
    }
    else
    {
        alert("You have entered an invalid email address!");
        document.login.email.focus();
        return false;
    }
}

var check = function() {
if (document.getElementById('password').value !=
document.getElementById('cpassword').value)
{
    alert("Both the passwords are not same");
    return false;

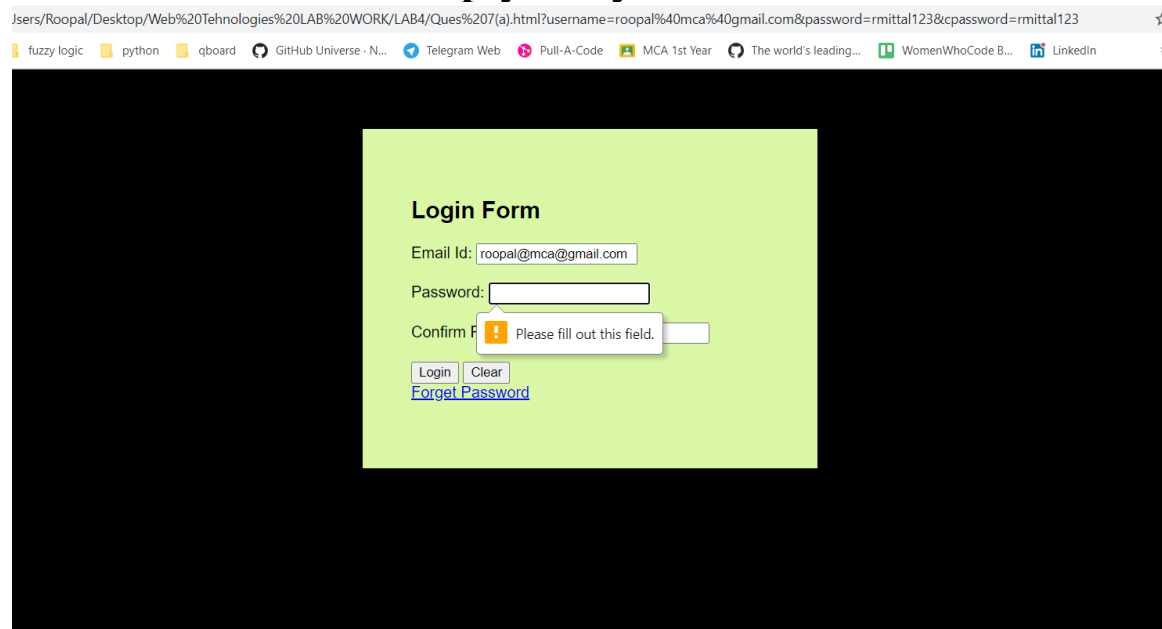
} else {
    return true;
}
}
```

OUTPUT Webpage:

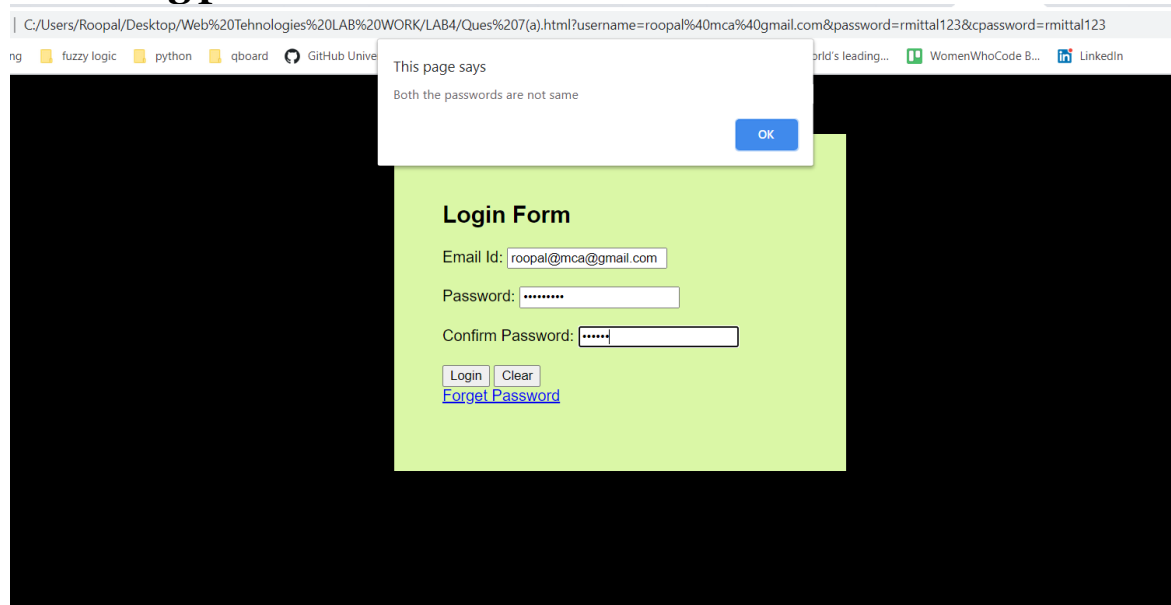
Validation check on email_address.



Validation check on empty entry



Checking passwords are same or not



(b) Registration form

HTML Code:

```
<html>  
<head>  
    <title>Register</title>  
    <script src="validation_register.js"></script>  
    <link rel="stylesheet" href="validation_register.css">  
</head>  
<body onload='document.register.fname.focus()>  
    <div>  
        <h2>Registration Form</h2>  
        <h3>Want to proceed further? Register yourself!</h3>  
        <form name="register" onSubmit="return validateForm()">  
            <label for="fname">First Name:</label>  
            <input type="text" id="fname" name="fname" required><br><br>  
            <label for="lname">Last Name:</label>  
            <input type="text" id="lname" name="lname" required><br><br>  
            <label for="email">Email Id:</label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <input type="text" id="email" name="email" required><br><br>  
            Gender: &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <input type="radio" id="gender" name="gender" value="gender">  
            <label for="male">Male</label>  
            <input type="radio" id="female" name="gender" value="female">  
            <label for="female">Female</label>  
            <input type="radio" id="other" name="gender" value="other">  
            <label for="other">Prefer not to say</label> <br> <br>  
            <label for="cars">Birth day:</label>&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <select id="day" name="day">
```

```
<option value="1">1</option>
<option value="2">2</option>
<option value="3">3</option>
<option value="4">4</option>
<option value="5">5</option>
<option value="6">6</option>
<option value="7">7</option>
<option value="8">8</option>
<option value="9">9</option>
<option value="10">10</option>
<option value="11">11</option>
<option value="12">12</option>
<option value="13">13</option>
<option value="14">14</option>
<option value="15">15</option>
<option value="16">16</option>
<option value="17">17</option>
<option value="18">18</option>
<option value="19">19</option>
<option value="20">20</option>
<option value="21">21</option>
<option value="22">22</option>
<option value="23">23</option>
<option value="24">24</option>
<option value="25">25</option>
<option value="26">26</option>
<option value="27">27</option>
<option value="28">28</option>
<option value="29">29</option>
<option value="30">30</option>
<option value="31">31</option>
</select>
<select id="month" name="month">
<option value="Jan">January</option>
<option value="Feb">February</option>
<option value="Mar">March</option>
<option value="Apr">April</option>
<option value="May">May</option>
<option value="June">June</option>
<option value="July">July</option>
<option value="Aug">August</option>
<option value="Sept">September</option>
<option value="Oct">October</option>
<option value="Nov">November</option>
<option value="Dec">December</option>
</select> <br> <br>
```

Employment type:

```
<input type="checkbox" id="1" name="emp1" value="Student">
<label for="student"> Student</label>
<input type="checkbox" id="2" name="emp2" value="Job">
<label for="job"> Looking for a job</label>
```



```

        return false;
    }
    else
    {
        return true;
    }
    var lastname= document.getElementById("lname").value;
    if(lastname=="")
    {
        alert("Last name can't be empty");
        return false;
    }
    else if(lastnamename > 20)
    {
        alert("Please use a short name of 10 characters.");
        return false;
    }
    else
    {
        return true;
    }

    var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3}+$/;
    if(document.getElementById("email").value.match(mailformat))
    {
        document.register.email.focus();
        return true;
    }
    else
    {
        alert("You have entered an invalid email address!");
        document.register.email.focus();
        return false;
    }
}

var check = function() {
    if (document.getElementById('password').value !=
document.getElementById('cpassword').value)
    {
        alert("Both the passwords are not same");
        return false;

    } else {
        return true;

    }
}

```


OUTPUT Webpage:

Validation check to fill important fields

The screenshot shows a web browser window with a registration form titled "Registration Form". The form is set against a purple background. It includes fields for First Name (filled with "Roopal"), Last Name (filled with "Mittal"), Email Id (empty), Gender (with a dropdown menu showing "Please fill out this field. Prefer not to say"), Birthday (a date picker set to 1 January), Employment type (radio buttons for Student, Looking for a job, and Looking for internship, with Student selected), and a text area for "Tell us something about yourself:". There are also Password and Confirm Password fields, both empty. At the bottom, there are "Register" and "Clear" buttons, and a link "Already have an account? Login". The browser's address bar shows the file path "C:/Users/Roopal/Desktop/Web%20Technologies%20LAB%20WORK/LAB4/Ques%207(b).html". The Windows taskbar at the bottom shows the search bar and various application icons.

Validation check on password match

This screenshot shows the same registration form as above, but with a validation error. A white dialog box with a blue "OK" button is displayed in the center, containing the text "This page says Both the passwords are not same". The form fields are now empty: First Name, Last Name, Email Id, Gender (radio buttons for Male, Female, and Prefer not to say), Birthday (1 January), Employment type (radio buttons for Student, Looking for a job, and Looking for internship), and the "Tell us something about yourself:" text area. The Password and Confirm Password fields are also empty. The "Register" and "Reset" buttons are at the bottom. The browser window and Windows taskbar are the same as in the previous screenshot.

Ques 8: Write a JavaScript that will allow to perform all arithmetic calculations(+,-*,/,%)

HTML Code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Calculator</title>
    <script type="text/javascript" src="calculator.js"></script>
</head>
<body bgColor="#FA8072">
    <center>
        <h1><font color="#180F99 "><b>Simple Calculator</b></font></h1>
        <hr/><h2>
        <table border="0">
            <tr>
                <td align="right" colspan="5">Enter 1st value : <input type="text" size="20"
                value="" id="textVal1">
            </td>
            </tr>
            <tr>
                <td align="right" colspan="5">Enter 2nd value : <input type="text" size="20"
                value="" id="textVal2">
            </td>
            </tr>
            <tr>
                <td align="right" colspan="5">Result : <input type="text" size="20"
                id="result" value=""></td>
            </tr>
            <tr>
                <td align="right"><input type="submit" style="height: 30px; width: 50px"
                onClick="adding()" value="+"></td>
                <td align="right"><input type="submit" style="height: 30px; width: 50px"
                onClick="subtraction()" value="-"></td>
                <td align="right"><input type="submit" style="height: 30px; width: 50px"
                onClick="multiplication()" value="*"></td>
                <td align="right"><input type="submit" style="height: 30px; width: 50px"
                onClick="division()" value="/"></td>
                <td align="right"><input type="submit" style="height: 30px; width: 50px"
                onClick="remainder()" value="%"></td>
            </tr>
        </table>
        </h2><hr/>
    </center>
</body>
</html>
```

JAVASCRIPT Code:

```
function adding() {  
var v1 = parseInt(document.getElementById("textVal1").value);  
var v2 = parseInt(document.getElementById('textVal2').value);  
document.getElementById("result").value = v1+v2;  
}
```

```
function subtraction() {  
var v1 = parseInt(document.getElementById("textVal1").value);  
var v2 = parseInt(document.getElementById('textVal2').value);  
document.getElementById("result").value = v1-v2;  
}
```

```
function multiplication() {  
var v1 = parseInt(document.getElementById("textVal1").value);  
var v2 = parseInt(document.getElementById('textVal2').value);  
document.getElementById("result").value = v1*v2;  
}
```

```
function division() {  
var v1 = parseInt(document.getElementById("textVal1").value);  
var v2 = parseInt(document.getElementById('textVal2').value);  
document.getElementById("result").value = v1/v2;  
}
```

```
function remainder() {  
var v1 = parseInt(document.getElementById("textVal1").value);  
var v2 = parseInt(document.getElementById('textVal2').value);  
document.getElementById("result").value = v1%v2;  
}
```

OUTPUT Webpage:

Addition of two numbers

Roopal/Desktop/Web%20Tehnologies%20LAB%20WORK/Ques8.html

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Simple Calculator

Enter 1st value :

Enter 2nd value :

Result :

File | C:/Users/Roopal/Desktop/Web%20Tehnologies%20LAB%20WORK/Ques8.html

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Simple Calculator

Enter 1st value :

Enter 2nd value :

Result :

+ - * / %

File | C:/Users/Roopal/Desktop/Web%20Tehnologies%20LAB%20WORK/Ques8.html

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Simple Calculator

Enter 1st value :

Enter 2nd value :

Result :

+ - * / %

File | C:/Users/Roopal/Desktop/Web%20Tehnologies%20LAB%20WORK/Ques8.html

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Simple Calculator

Enter 1st value :

Enter 2nd value :

Result :

+ - * / %

File | C:/Users/Roopal/Desktop/Web%20Tehnologies%20LAB%20WORK/Ques8.html

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Simple Calculator

Enter 1st value :

Enter 2nd value :

Result :

+ - * / %

Ques 8: Write a javascript to handle onclick, onchange, onfocus, onmouseover, onload, onsubmit events.

HTML Code:

```
<html>
<head>
    <script type="text/javascript" src="Ques9.js">
    </script>
</head>
<body onload="pageLoad()" bgcolor="black" text="white">
    <center><h2>
    <p>OnClick Method for displaying text</p>
    <button onclick="displayMessage()">Click me</button>
    <p id="demo"></p>

    <p>OnChange Method to trigger the function to convert the text to UpperCase
    when the text field is left.</p>
    Enter your name:
    <input type="text" id="fname" onchange="myFunction2()">
    <p>Click the text field to see a different colour and leave the text field to see a
    different colour.</p>
    Enter your name:
    <input type="text" id="myInput" onfocus="focusFunction()"
    onblur="blurFunction()">
    </h2>
    <h1 onmouseover="style.color='lightpink'"
    onmouseout="style.color='yellow'">Mouse over this text</h1>
    <form onsubmit="confirmInput()">
    <h2>Enter your name:</h2>
    <input id="fname" type="text">
    <input type="submit">
    </form>
    </center>
</body>
</html>
```

JAVASCRIPT Code:

```
function displayMessage()
{
    document.getElementById("demo").innerHTML = "Hello, this is sample message.";
}
function myFunction2()
{
    var x = document.getElementById("fname");
    x.value = x.value.toUpperCase();
}
function focusFunction()
{
}
```

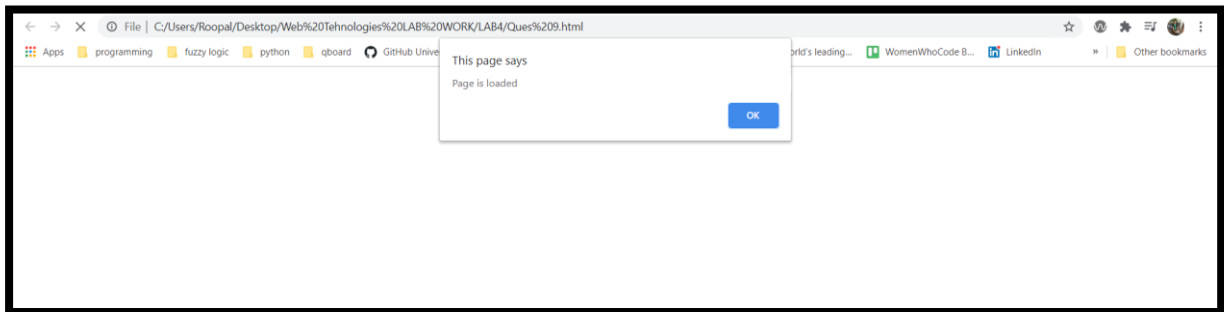
```

document.getElementById("myInput").style.background = "lightblue";
}
function blurFunction()
{
document.getElementById("myInput").style.background = "yellow";
}
function pageLoad()
{
alert("Page is loaded");
}
function confirmInput()
{
fname = document.forms[o].fname.value;
alert("Hello " + fname);
}

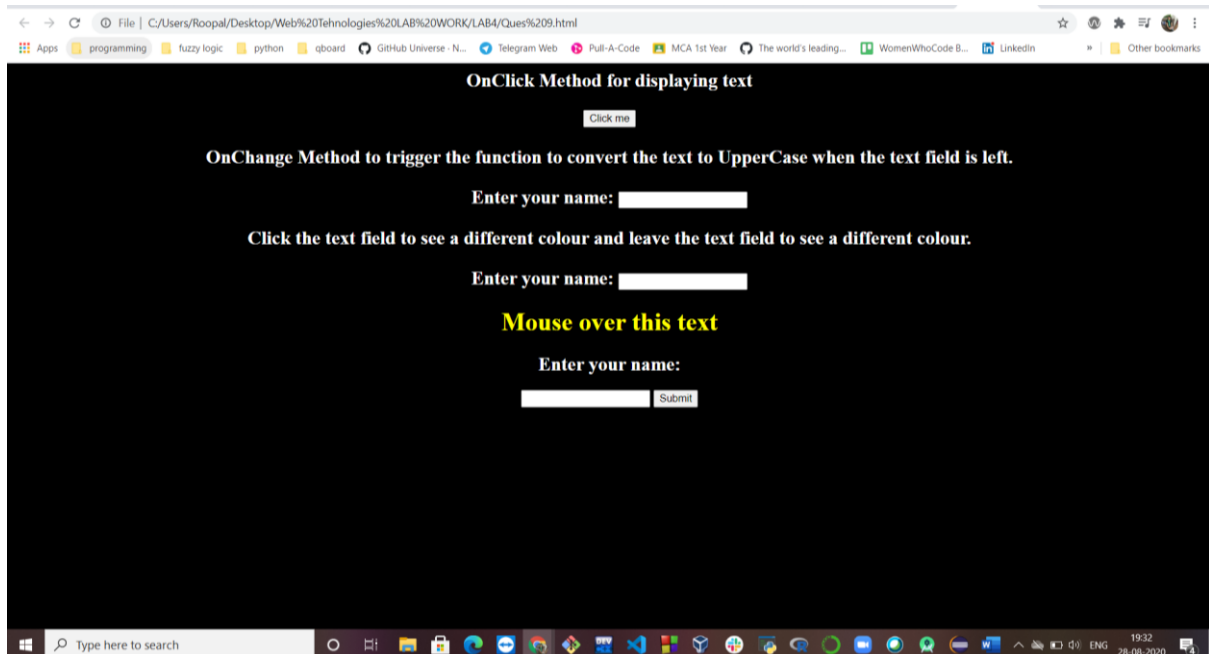
```

OUTPUT Webpage:

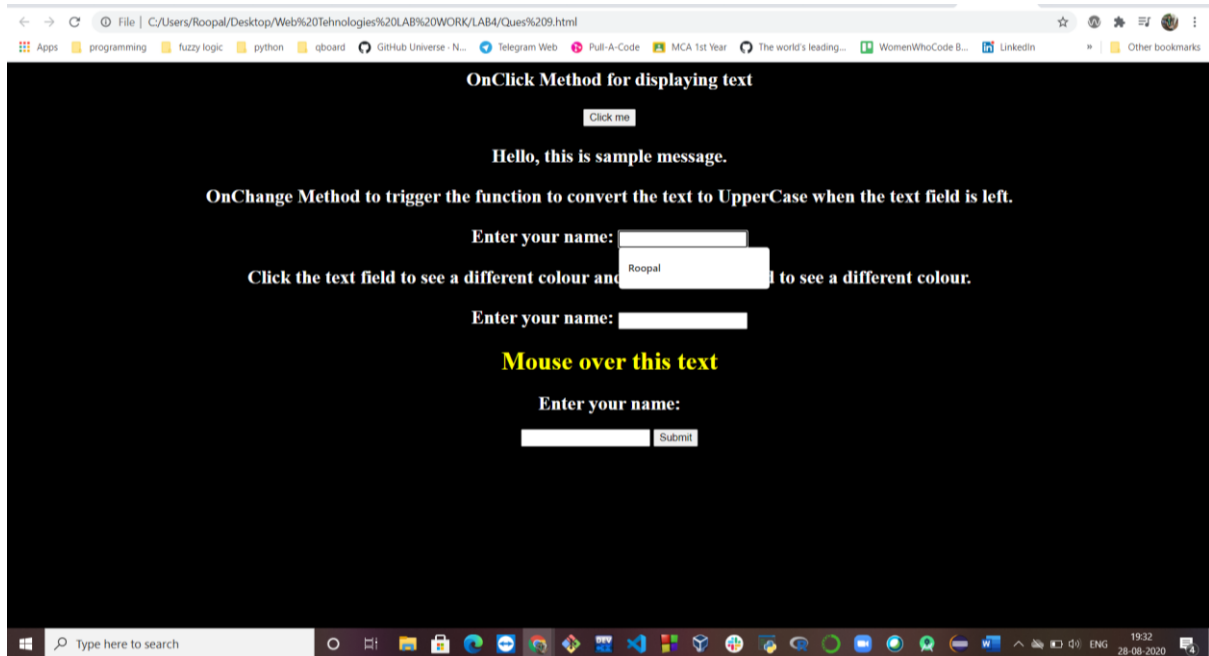
onload



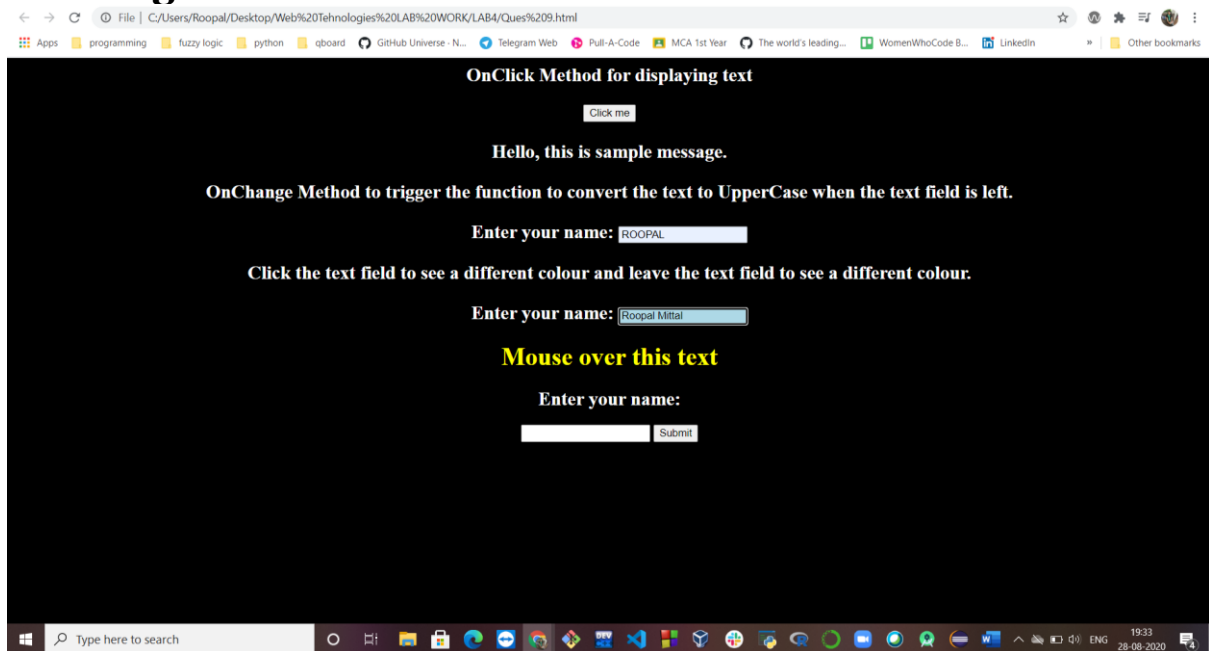
Before onclick



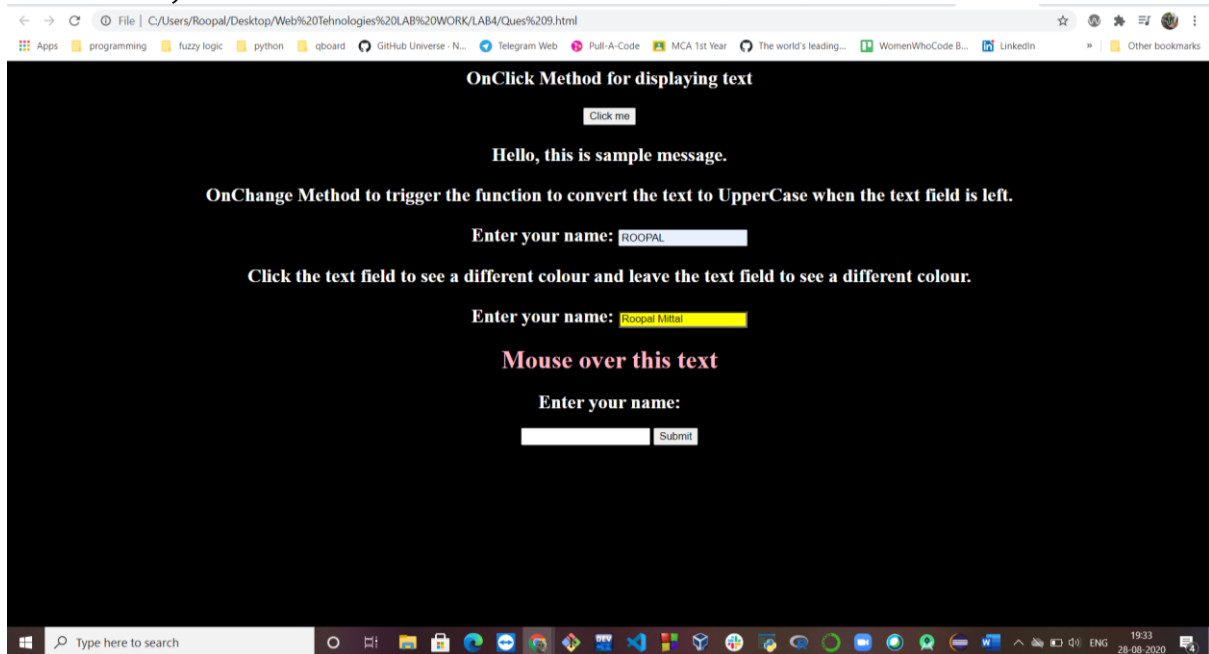
After onclick



onchange



Onfocus, onmouse



onsubmit

