ASSIGNMENT-5

1. WAJS to validate textboxes using getElementById():

Input:

<html>

<head>

<script>

function validate()

{

var x=document.getElementById("username").value;

if(x=="")

{

alert('Textbox cannot be empty');

return false;

}

else

{

alert('Valid input');

return true;

}

}

</script>

</head>

<body>

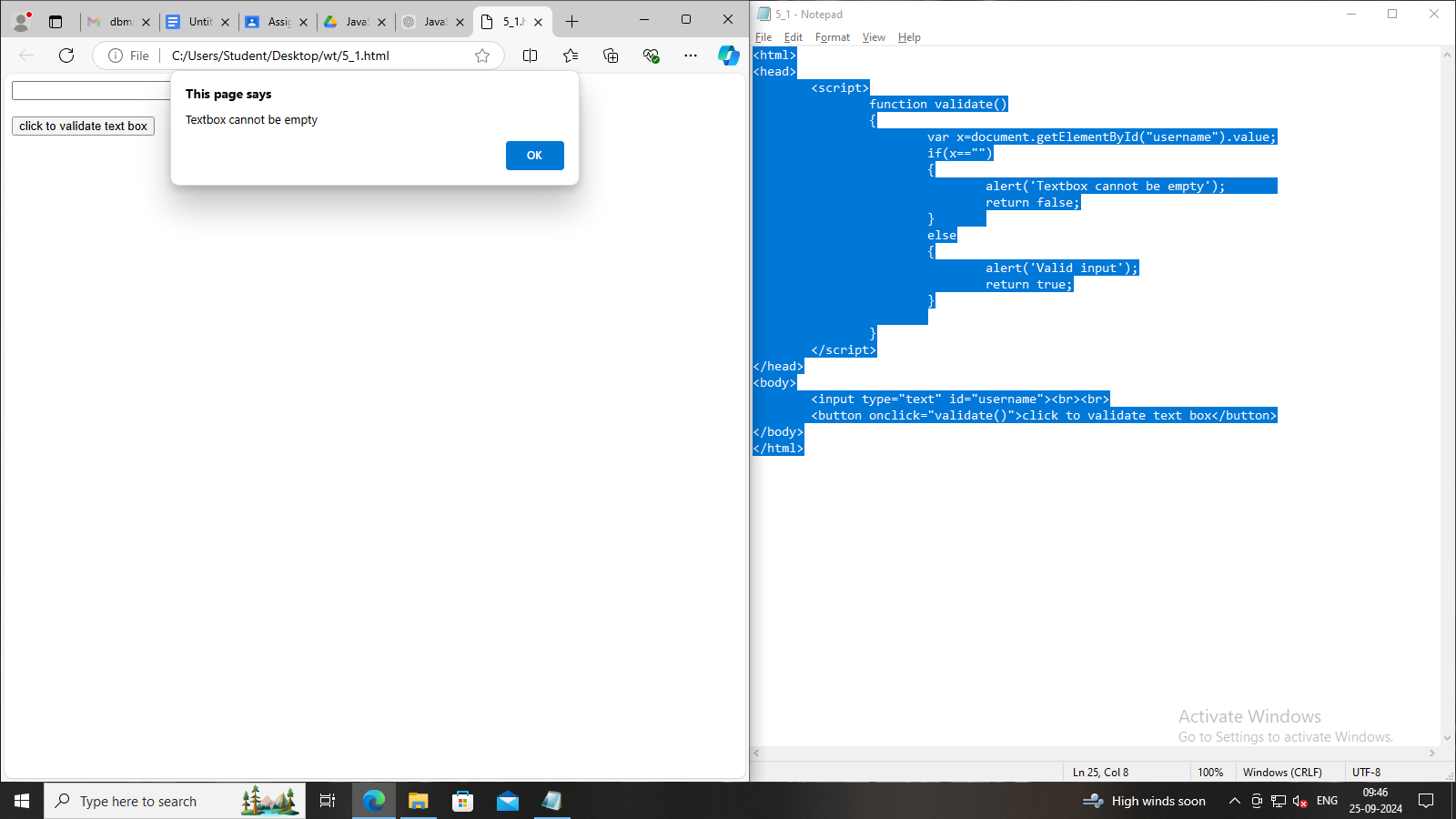
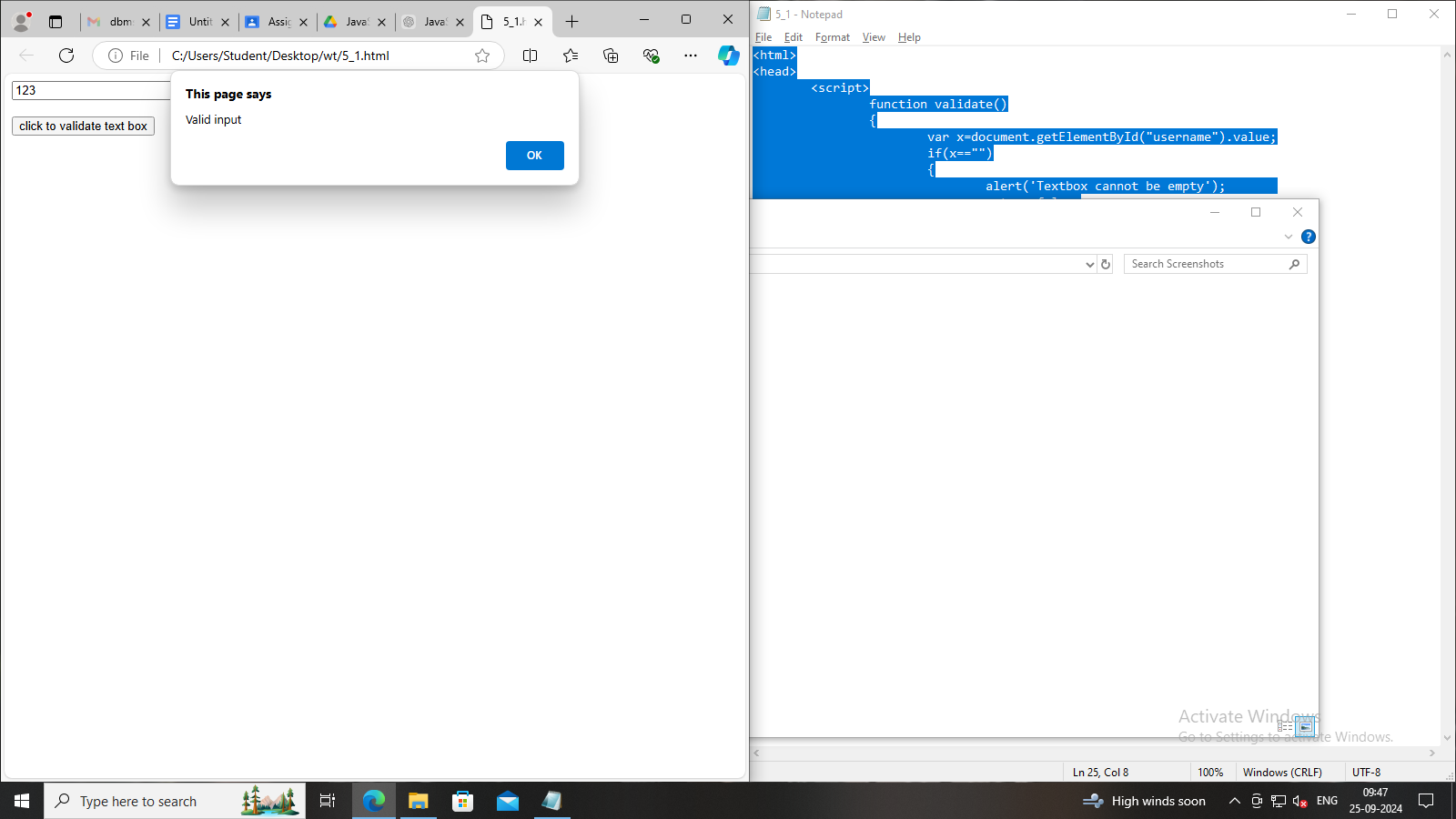
<input type="text" id="username"><br><br>

<button onclick="validate()">click to validate text box</button>

</body>

</html>

Output:

2. WAJS to validate dropdown menu using getElementById().

Input:

<html>

<head>

<script>

function validate()

{

var x=document.getElementById("dropdown").value;

if(x=="")

{

alert('Select an option');

return false;

}

else

{

alert('Valid selection');

return true;

}

}

</script>

</head>

<body>

<select id="dropdown">

<option value="">Select an option</option>

<option value="1">Option 1</option>

<option value="2">Option 2</option>

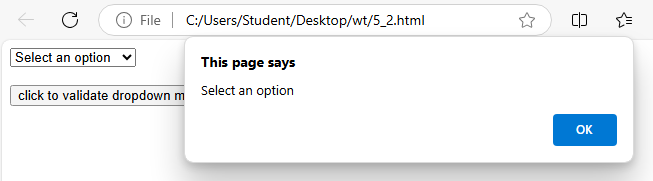
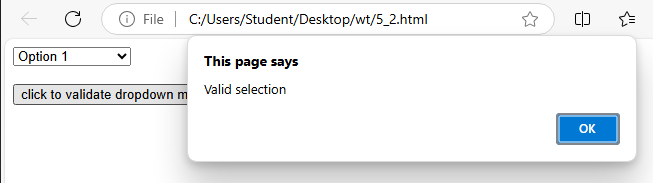
</select><br><br>

<button onclick="validate()">click to validate dropdown menu</button>

</body>

</html>

Output:

3. WAJS to validate radio buttons using both the methods.

i. getElementById()

Input:

<html>

<head>

<script>

function validate()

{

var x=document.getElementById("m").checked;

var y=document.getElementById("f").checked;

if(!x && !y)

{

alert('Select a radio button');

return false;

}

else

{

alert('Valid selection');

return true;

}

}

</script>

</head>

<body>

<input type="radio" id="m" name="gender" value="male">Male<br>

<input type="radio" id="f" name="gender" value="female">Female<br><br>

<button onclick="validate()">click to validate radio buttons</button>

</body>

</html>

ii. getElementsByName()

Input:

<html>

<head>

<script>

function validate()

{

var x=document.getElementsByName("gender");

if((x[0].checked==false)&&(x[1].checked==false))

{

alert('Select gender');

return false;

}

else

{

alert('Gender selected');

return true;

}

}

</script>

</head>

<body>

<input type="radio" id="m" name="gender" value="male">Male<br>

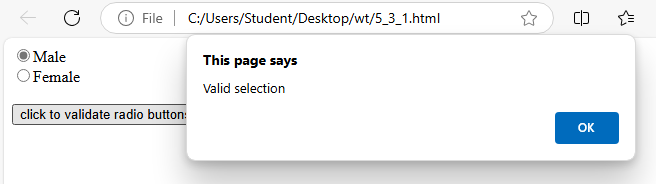
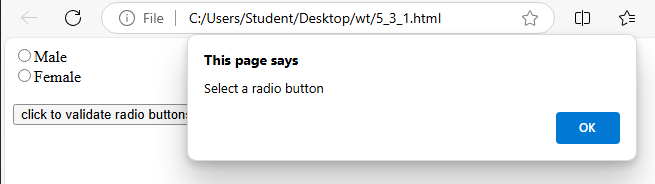
<input type="radio" id="f" name="gender" value="female">Female<br><br>

<button onclick="validate()">click to validate radio buttons</button>

</body>

</html>

Output:

4. WAJS to validate checkboxes using getElementsByName().

Input:

<html>

<head>

<script>

function validate()

{

var x=document.getElementsByName("lang");

var l="";

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

{

if(x[i].checked==true)

{

l=l+" "+x[i].value;

}

}

if(l=="")

{

alert("Select checkboxes");

return false;

}

else

{

alert("Checkboxes selected are:"+l);

return true;

}

}

</script>

</head>

<body>

<input type="checkbox" id="m" name="lang" value="english">ENG<br>

<input type="checkbox" id="n" name="lang" value="konkani">KON<br>

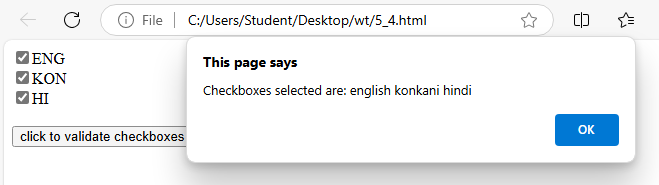
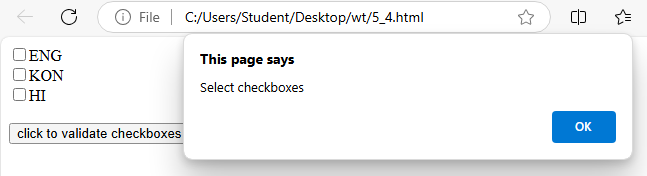
<input type="checkbox" id="f" name="lang" value="hindi">HI<br><br>

<button onclick="validate()">click to validate checkboxes</button>

</body>

</html>

Output:

5. WAJS to demonstrate getElementsByClassName() method.

Input:

<html>

<head>

<script>

function test()

{

var x=document.getElementsByClassName("c1");

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

{

x[i].style.fontSize="30px";

}

}

</script>

</head>

<body>

<p id="p1" class="c1">hello</p>

<p id="p2" class="c2">world</p>

<p id="p3" class="c1">this</p>

<p id="p4" class="c1">is a </p>

<p id="p5" class="c2">demonstration of</p>

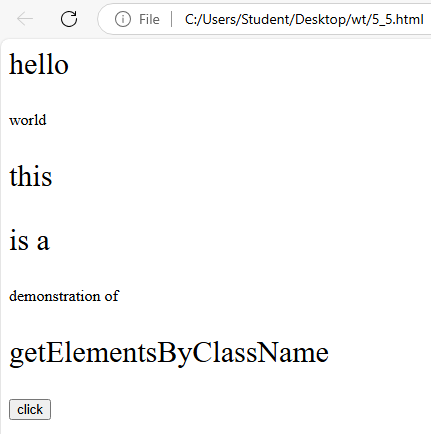
<p id="p6" class="c1">getElementsByClassName</p>

<button onclick="test()">click</button>

</body>

</html>

Output:



6. WAJS to demonstrate getElementsByTagName() method.

Input:

<html>

<head>

<script>

function test()

{

var x=document.getElementsByTagName("p");

alert(`there are ${x.length} <p> elements`);

}

</script>

</head>

<body>

<p id="p1" >hello</p>

<p id="p2" >world</p>

<p id="p3" >this</p>

<p id="p4" >is a </p>

<p id="p5" >demonstration of</p>

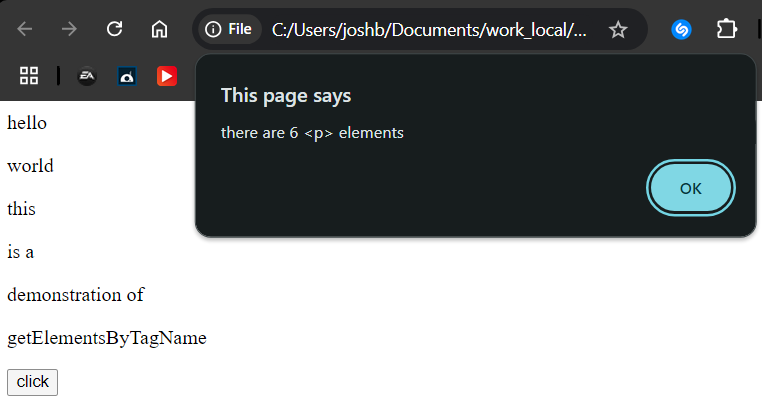
<p id="p6" >getElementsByTagName</p>

<button onclick="test()">click</button>

</body>

</html>

Output:



7. WAJS to validate phone number.

10-digit phone number.

Number should start with either 7, 8 or 9.

Input:

<html>

<head>

<script>

function validate()

{

var phno=document.getElementById("ph").value;

var x=/^[789]{1}[0-9]{9}$/;

if(x.test(phno)==false)

{

alert("invalid phone number");

}

else

{

alert("valid phone number");

}

}

</script>

</head>

<body>

<p>Enter phone number:</p>

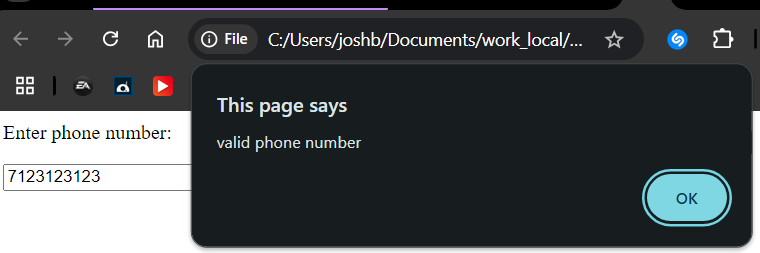
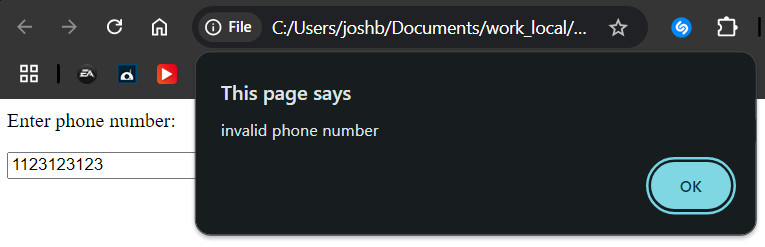
<input type="text" id="ph">

<button onclick="validate()">click</button>

</body>

</html>

Output:

8. WAJS to validate username entered by user. Username should start with COMP followed by any 2 digits.

Input:

<html>

<head>

<script>

function validate()

{

var username=document.getElementById("un").value;

var password=document.getElementById("pw").value;

var x=/^COMP\d{2}$/;

var p=/^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[a-zA-Z\d@$!%\*?&]{6,10}$/;

if(username=="")

{

alert("username cannot be empty")

}

else if(password=="")

{

alert("password cannot be empty")

}

else if(x.test(username)==false)

{

alert("invalid username");

}

else if(p.test(password)==false)

{

alert("invalid password");

}

else

{

alert("Successfully entered username and password");

}

}

</script>

</head>

<body>

<p>Enter username:</p>

<input type="text" id="un">

<p>Enter password:</p>

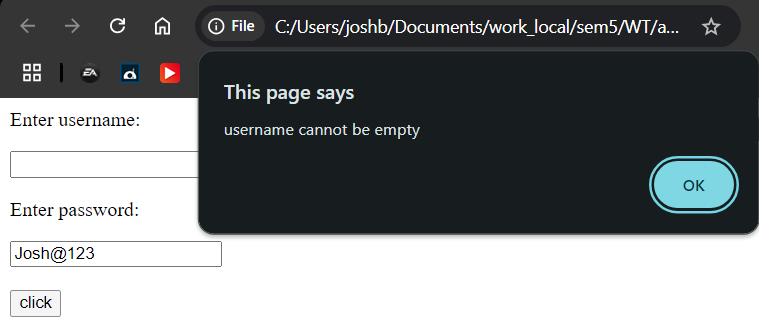
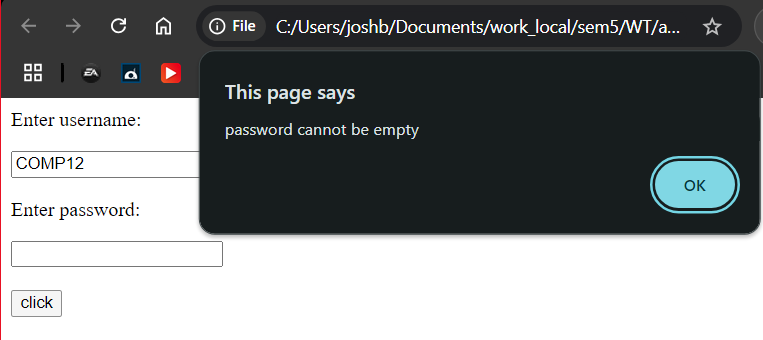
<input type="text" id="pw"><br><br>

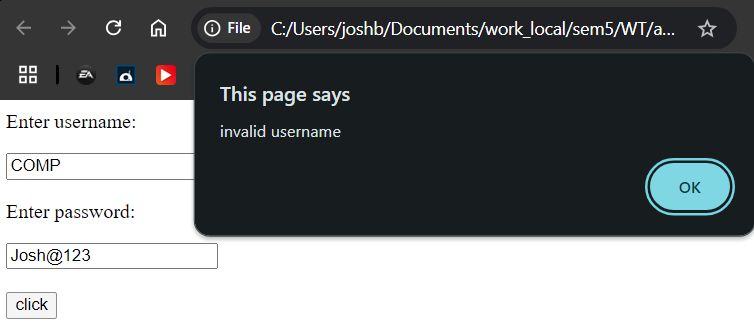
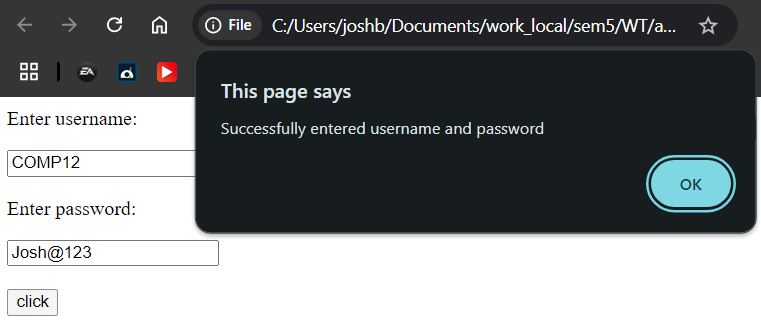
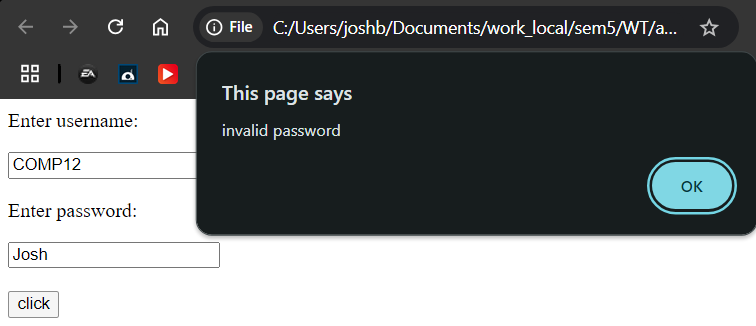
<button onclick="validate()">click</button>

</body>

</html>

Output:

9.WAJS to validate password.

- Size of password should be between 6 to 10

- At least one lowercase alphabet

- At least one uppercase alphabet

- At least one digit

- At least one special symbol

Input:

<!DOCTYPE html>

<html>

<head>

    <title>javascript coding</title>

    <script>

        function validate() {

            var password = document.getElementById("pw").value;

            if (password.trim().length < 6 || password.trim().length > 10)

            {

                alert("password size must be 6 to 8 characters");

                return false;

            }

            else if (password.search(/[A-Z]/) == -1)

            {

                alert("password must contain atleast one Uppercase alphabet");

                return false;

            }

            else if (password.search(/[a-z]/) == -1)

            {

                alert("password must contain atleast one lowercase alphabet");

                return false;

            }

            else if (password.search(/[0-9]/) == -1)

            {

                alert("password must contain atleast one number");

                return false;

            }

            else if (password.search(/[\!\@\#\$\%\^\&\\*\:\;\,\.]/) == -1)

            {

                alert("password must contain atleast one special character @ # $ % & \* ; : , .");

                return false;

            }

            else

            {

                alert("Valid password");

                return true;

            }

        }

    </script>

</head>

<body>

    <form onsubmit="return validate()">

        <label>Enter Password:</label><br>

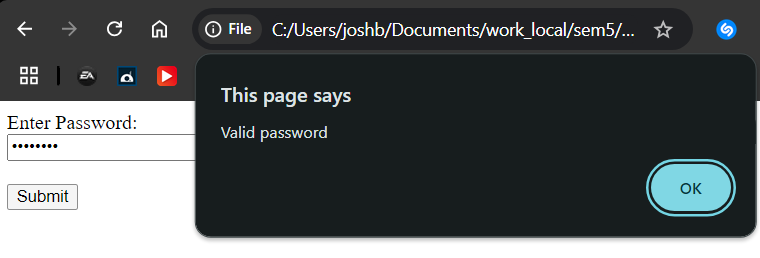
        <input type="password" id="pw"><br><br>

        <input type="submit">

    </form>

</body>

</html>

Output: 

10. WAJS to validate email.

Input:

<!DOCTYPE html>

<html>

<head>

<script>

function validate()

{

var email=document.getElementById("em").value;

var e=/^([a-zA-Z0-9\.-]+)@([a-zA-Z0-9-]+)\.([a-z]+)(\.[a-z]+)?$/;

if(e.test(email)==false)

{

alert("Email invalid");

}

else

{

alert("Valid email");

}

}

</script>

</head>

<body>

<p>Enter email:</p>

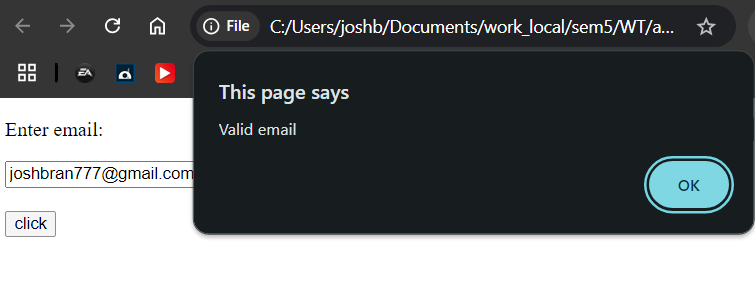
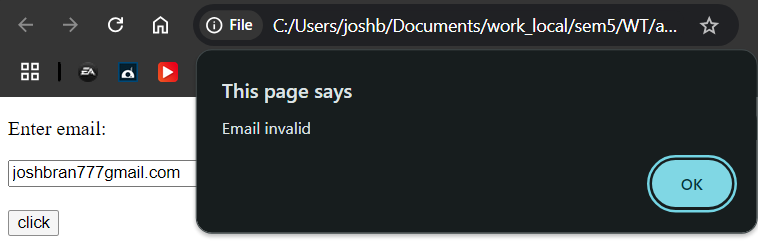
<input type="email" id="em"><br><br>

<button onclick="validate()">click</button>

</body>

</html>

Output:

11. WAJS to design one sign up form having following input elements.

a. Textboxes

b. Dropdown menu

c. Radio buttons

d. Checkboxes

e. Username

f. Password

g. Phone number

h. Email

Display the entered data if validations are successful.

Input:

<!DOCTYPE html>

<html>

<head>

    <script>

        function validate()

        {

            //GETTING VALUES

            //textboxes

            var username=document.getElementById("un").value;

            var password=document.getElementById("pw").value;

            var u=/^COMP\d{2}$/;

            var p=/^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[a-zA-Z\d@$!%\*?&]{6,10}$/;

            //radio

            var branch\_selected="";

            var br=document.getElementsByName("branch")

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

            {

                if(br[i].checked==true)

                    branch\_selected=br[i].value;

            }

            //dropdown

            var state\_selected="";

            var s=document.getElementById("dropdown");

            var state\_selected=s.options[s.selectedIndex].value;

            //checkboxes

            var lng=document.getElementsByName("lang");

            var lan="";

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

            {

                if(lng[i].checked==true)

                    lan=lan+" "+lng[i].value;

            }

            //phone number

            var phno=document.getElementById("ph").value;

            var ph=/^[789]{1}[0-9]{9}$/;

            //email

            var email=document.getElementById("em").value;

            var e=/^([a-zA-Z0-9\.-]+)@([a-zA-Z0-9-]+)\.([a-z]+)(\.[a-z]+)?$/;

            //VALIDATING:

            //textboxes

            if(username=="")

            {

                alert("username cannot be empty");

                return false;

            }

            else if(password=="")

            {

                alert("password cannot be empty");

                return false;

            }

            else if(u.test(username)==false)

            {

                alert("invalid username");

                return false;

            }

            else if(p.test(password)==false)

            {

                alert("invalid password");

                return false;

            }

            else if(branch\_selected=="")

            {

                alert("select a branch");

                return false;

            }

            else if(state\_selected=="")

            {

                alert("select a state");

                return false;

            }

            else if(lan=="")

            {

                alert("select a language");

                return false;

            }

            else if(ph.test(phno)==false)

            {

                alert("invalid phone number");

                return false;

            }

            else if(e.test(email)==false)

            {

                alert("invalid email");

                return false;

            }

            else

            {

                alert("Form submitted successfully");

                return true;

            }

        }

    </script>

</head>

<body>

    <form onsubmit="return validate()">

        <!--testboxes:username and password-->

        <label>Enter username:</label>

        <input type="text" id="un"><br><br>

        <label>Enter password:</label>

        <input type="password" id="pw"><br><br>

        <!--radio buttons-->

        <label>Enter Branch:</label><br>

        <input type="radio" id="co" name="branch" value="computer">COMP<br>

        <input type="radio" id="ec" name="branch" value="electronics">ECE<br>

        <input type="radio" id="me" name="branch" value="mechanical">MECH

        <br><br>

        <!--dropdown menu-->

        <label>Enter State:</label>

        <select id="dropdown">

            <option value="goa">goa</option>

            <option value="hyd">hyderabad</option>

            <option value="delhi">delhi</option>

        </select>

        <br><br>

        <!--checkboxes-->

        <label>Enter Languages:</label><br>

        <input type="checkbox" id="m" name="lang" value="english">ENG<br>

        <input type="checkbox" id="n" name="lang" value="konkani">KON<br>

        <input type="checkbox" id="f" name="lang" value="hindi">HI<br><br>

        <!--phone number-->

        <label>Enter phno:</label>

        <input type="text" id="ph">

        <br><br>

        <!--email-->

        <label>Enter email:</label>

        <input type="email" id="em"><br><br>

        <input type="submit">

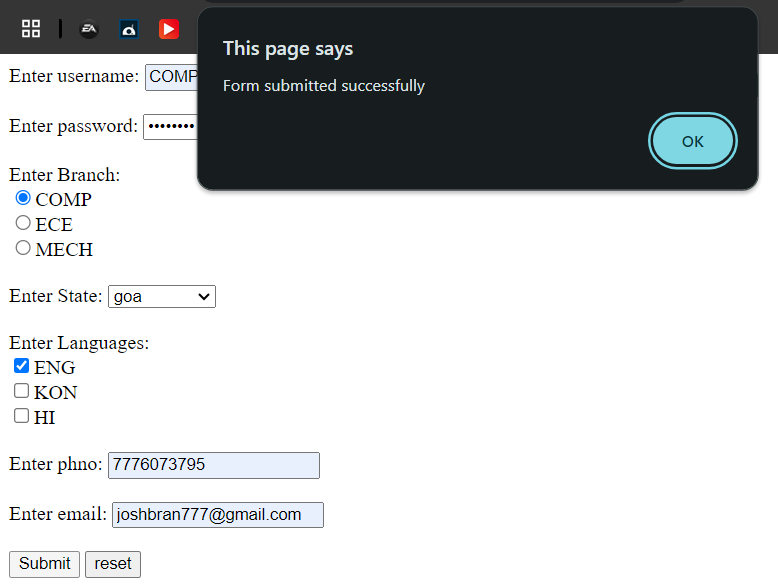
        <input type="reset" value="reset">

    </form>

</body>

</html>

Output:



12. WAJS to implement the following.

When a button is clicked, all the <p> elements font size should increase to 30px and their background

color should change to orange color.

Input:

<!DOCTYPE html>

<html>

<head>

    <script>

        function changeParagraphStyle()

        {

          var p=document.getElementsByTagName("p");

          for (var i of p)

          {

            i.style.fontSize="30px";

            i.style.backgroundColor="orange";

          }

          alert("Fontsize and background colour changed")

        }

      </script>

</head>

<body>

    <p>Paragraph 1</p>

    <p>Paragraph 2</p>

    <button onclick="changeParagraphStyle()">Change Paragraph Style</button>

</body>

</html>

Output:

