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Computer Engineering Department (B.Tech CSBS SEM VI)  
Modern Web Applications  
Lab Manual  
**PART A**

(Part A: TO BE REFFERED BY STUDENTS)

**Experiment No. 05**

**A.1 AIM:**

Validation of HTML forms using JavaScript

**A.2 Pre requisite:**

Basic Knowledge of HTML and JavaScript

**A.3 Outcome:**

After successful completion of this experiment students will be able to:

1. Apply appropriate validations on the HTML forms using JavaScript

**A.4 Theory:**

JavaScript is the programming language of the Web. All modern HTML pages are using JavaScript.

JavaScript is one of **3** languages all web developers **MUST** learn:

1. **HTML** to define the content of web pages
2. **CSS** to specify the layout of web pages
3. **JavaScript** to program the behavior of web pages

**JavaScript Form Validation**

JavaScript can be used to validate data in HTML forms before sending off the content to a server.

Form data that typically are checked by a JavaScript could be:

- has the user left required fields empty?
- has the user entered a valid e-mail address?
- has the user entered a valid date?
- has the user entered text in a numeric field?

Assigning Names to Form Fields

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In order to access your form fields in code, you need to assign names to the form and each of the fields. You do this by using the Name attribute.

In the code provided previously you can find the following line.

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

When you add the name attribute, the code looks like the following:

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

Once you have assigned names for your form and all of the form elements, your form code should resemble the following code.

```
<form method="post" action="mailto:Frank@cohowinery.com" name="ContactForm">
  <p>Name: <input type="text" size="65" name="Name"></p>
  <p>E-mail Address: <input type="text" size="65" name="Email"></p>
  <p>Telephone: <input type="text" size="65" name="Telephone"><br>
    <input type="checkbox" name="DoNotCall"> Please do not call me.</p>
  <p>What can we help you with?
    <select type="text" value="" name="Subject">
      <option> </option>
      <option>Customer Service</option>
      <option>Question</option>
      <option>Comment</option>
      <option>Consultation</option>
      <option>Other</option>
    </select></p>
  <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>
```

### Writing the Validation Script

#### *Creating the Function*

```
<script>
function ValidateContactForm()
{

}
</script>
```

#### Creating Field Variables

To access the form fields within the code, you should create variables.

Variables allow you to temporarily store values. Variables are not required, but they make accessing each field easier. For example, without a variable, you would have to type

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document.ContactForm.Name every time you needed to access the Name field. However, after you assign a variable to the field, you can use the variable to access the field. Variables require less typing and help make your code more readable.

The contact form code in this article contains six fields to which you assigned name attribute values; therefore, you need six variables, one for each field.

```
function ValidateContactForm()
{
    var name = document.ContactForm.Name;
    var email = document.ContactForm.Email;
    var phone = document.ContactForm.Telephone;
    var nocall = document.ContactForm.DoNotCall;
    var what = document.ContactForm.Subject;
    var comment = document.ContactForm.Comment;
}
```

#### Defining Required Fields

- You may want to require that users type something for some fields on your form. By default, when you first create a form, all fields are optional. Therefore, if you want to ensure that users fill in certain fields, you need to tell the form validation function to check each field by checking the value of the field.

```
if (name.value == "")
{
    window.alert("Please enter your name.");
    name.focus();
    return false;
}
```

If the user clicks the Submit button without entering a value in the Name field, the browser displays a message to remind the user to enter a name. The Insertion Point is placed in the Name field, and the user is returned to the form. The return statement with a value of false is necessary so that the rest of the code doesn't execute.

- You can add a similar if statement to verify that the user has selected an item from the drop-down list. In this case, you don't check the value of the field; you check the value of the selected item.
- The following code shows the validation for the What can we help you with drop-down list.
- Items in a drop-down list or list box begin numbering at zero, so if the index of the selected item is less than 0, the user hasn't selected anything.

```
if (what.selectedIndex < 1)
{
    alert("Please tell us how we can help you.");
    what.focus();
}
```

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```
    return false;  
}
```

#### Determining Whether Data Is Valid

- In some cases, you may want to verify that the data is valid based on a specified format. For example, you know that all e-mail addresses contain an at symbol (@) and at least one period (.).
- indexOf method to determine whether a string occurs within another string.
- For the e-mail address, you need to determine whether an @ symbol or a period occurs within the e-mail form field. If the value returned from the indexOf method is less than zero (or -1), the e-mail address is invalid, the validate function returns false, and focus is returned to the e-mail form field.

The following code shows validation for the Email field.

```
if (email.value == "")  
{  
    window.alert("Please enter a valid e-mail address.");  
    email.focus();  
    return false;  
}  
  
if (email.value.indexOf("@", 0) < 0)  
{  
    window.alert("Please enter a valid e-mail address.");  
    email.focus();  
    return false;  
}  
  
if (email.value.indexOf(".", 0) < 0)  
{  
    window.alert("Please enter a valid e-mail address.");  
    email.focus();  
    return false;  
}
```

Multiple if statements have a cascading effect. If the first if statement indicates that the e-mail address contains a value, the second if statement runs, and if the second if statement indicates that the e-mail address contains an @ symbol, the third if statement runs. If any of the three if statements indicate an invalid e-mail address, a message is displayed to the user, the validation function returns false, and the user is returned to the form with the Insertion Point in the Email field.

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### Returning a Value from a Function

You can return a value from a custom function by using the return statement. As mentioned previously, each of the if statements shown previously contains a line that returns a Boolean value of false. When the validation function returns to the form, the return value tells the form whether to continue processing. A value of false tells the browser to stop processing the form. Therefore, at the end of the validation function, all form fields have you also need a statement to return a value of true. This means that validated and the form can continue processing.

### Connecting the Form to the Script

After you write the validation function, you need to tell your form to run the script when someone clicks the Submit button. To do this, you need to use the onsubmit event for the form.

For more information, see onsubmit Event. (The onsubmit event occurs every time a form is submitted for processing, but it happens on the client side, so if all processing is done on the server, you don't need the onsubmit event.)

To cause your validation script to run every time a user submits the contact form, add the following code to the opening <form> tag.

```
onsubmit="return ValidateContactForm();"
```

### Using an Event Handler Function

- Creating a function in response to an event is the same as creating any other function. Instead of adding the event script to the event in the opening tag of the element, you add the name of the function that handles the event.
- As shown in the previous section, you need the Telephone field disabled if the DoNotCall field is checked. But if the DoNotCall field is cleared, the Telephone field should be re-enabled. The following function shows how to do this using an if . . else statement.

```
function EnableDisable(chkbox)
{
    if(chkbox.checked == true)
    {
        document.ContactForm.Telephone.disabled = true;
    }
    else
    {
        document.ContactForm.Telephone.disabled = false;
    }
}
```

- After you created the custom function, you can add the following code tag for the DoNotCall field.

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onclick="EnableDisable(this);"

Notice that the EnableDisable function takes an argument. Therefore, when you call the event from within the element, you need to pass a value. In this case, you need to pass the current element, and the easiest way to do so is to use the this statement

### **A.5 Procedure/Task:**

1. Complete the task given in previous experiment (where you created a form)
2. Insert the JavaScript validations in those forms as discussed and practiced in class (*All characters in a field validation, All Numbers in a field validation, Phone number validation, Password validation, Email id validation, Date format validation etc.*)
3. Prepare the document. Save and close the file and name it as **EXP07\_Name of Student**

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**PART B**

(PART B: TO BE COMPLETED BY STUDENTS)

(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case there is no Black board access available)

Roll No. : E009	Name: Dhrumil Burad
Class : B.tech CSBS	Batch : B1
Date of Experiment : 9-02-2023	Date/Time of Submission : 16-02-2023
Grade :	

**B.1 Code:**

*(Paste your Code here)*

## HTML

```
<html>

<head>
  <meta http-equiv="Content-Language" content="en-us">
  <meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
  <title>Registration Form</title>
  <script src="./prac5.js"></script>
</head>
<style>
  td {
    border: 2px;
  }

  #uerror:invalid {
    color: red;
  }

  #uerror:valid {
    color: rgb(26, 255, 0);
  }
</style>

<body bgcolor="#FFFFFF">

  <h1 align="center">
    <font face="Algerian" size="7">Registration Form</font>
```

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```
</h1>

<form>
  <div align="center">
    <table border="5px" width="38%" cellpadding="20" bordercolor="black">
      <!-- *****USERNAME***** -->
      <tr>
        <td style="padding-bottom: 0px;" width="295">
          <p align="right"><b>

              <font size="4">UserName :</font>
            </b>
          </td>
          <td style="padding-bottom: 0px;">
            <p align="center">
              <font size="6">
                <input onkeyup="validuser()" autofocus
type="text" id="U" size="20"
                                style="font-weight: 700; float: left">
              </font>
            </td>
            <td>&nbsp;</td>
          </tr>
          <tr cellpadding="0">
            <td cellpadding="0" width="295">
              <p align="right"><b>
                </b>
            </td>
            <td style="padding:0px ">
              <p align=" center">

                <span id="uerror"></span>
                <br>
                <span>(Username should have min 5 characters and No
special characters)</span>
              </td>
              <td>&nbsp;</td>
            </tr>
            <!-- ***** PASSWORD ***** -->
            <tr>
              <td style="padding-bottom: 0px;" width="295">
                <p align="right"><b>
                  <font size="4">Password :</font>
                </b>
```



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```

        </td>
        <td style="padding-bottom: 0px;">
            <font size="6"><input onkeyup="validpass()" type="text"
id="pass" size="23"></font>
        </td>
        <td>&nbsp;</td>
    </tr>
    <tr cellpadding="0">
        <td cellpadding="0" width="295">
            <p align="right"><b>
                </b>
            </td>
            <td style="padding:0px">
                <p align=" center">
                    <span style="font-weight: bold;">Password must
contain:</span><br>
                    <span id="perr0">Minimum 8 characters</span><br>
                    <span id="perr1">Uppercase and lowercase
character</span><br>
                    <span id="perr2">Atleast 1 Number</span><br>
                    <span id="perr3">Special character</span>
                    <br>
                    <span></span>
                </td>
                <td>&nbsp;</td>
    </tr>
    <!-- ***** CONFIRM PASSWORD ***** -->
    <tr>
        <td style="padding-bottom: 0px;" width="295">
            <p align="right"><b>
                <font size="4">Confirm Password :</font>
                </b>
            </td>
            <td style="padding-bottom: 0px;">
                <font size="6"><input onkeyup="conpass()" type="text"
id="cpid" size="23"></font>
            </td>
            <td>&nbsp;</td>
    </tr>
    <tr style="padding: 0px;">
        <td></td>
        <td height="10px" style="padding:0px">
            <p align=" center">
                <span id="cpop"></span>

```

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```
</td>
<td style="padding: 0px;">&nbsp;</td>
</tr>
<!-- ***** EMAIL ***** -->
<tr>
<td style="padding-bottom: 0px;" width="295">
<p align="right"><b>
<font size="4">Enter Email Id: </font>
</b>
</td>
<td style="padding-bottom: 0px;">
<font size="6"><input onkeyup="emailid()" type="text"
id="emid" size="23"></font>
</td>
<td>&nbsp;</td>
</tr>
<tr style="padding: 0px;">
<td></td>
<td height="10px" style="padding:0px">
<p align=" center">
<span id="emidop"></span>
</td>
<td style="padding: 0px;">&nbsp;</td>
</tr>
<!-- ***** PAN CARD ***** -->
<tr>
<td style="padding-bottom: 0px;" width="295">
<p align="right"><b>
<font size="4">Enter PAN Number:</font>
</b>
</td>
<td style="padding-bottom: 0px;">
<font size="6"><input onkeyup="panno()" type="text"
id="panid" size="23"></font>
</td>
<td>&nbsp;</td>
</tr>
<tr style="padding: 0px;">
<td></td>
<td height="10px" style="padding:0px">
<p align=" center">
<span id="panop"></span>
</td>
<td style="padding: 0px;">&nbsp;</td>
```

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```
</tr>
<!-- ***** AADHAR CARD ***** -->
<tr>
    <td style="padding-bottom: 0px;" width="295">
        <p align="right"><b>
            <font size="4">Enter Aadhar Number:</font>
        </b>
    </td>
    <td style="padding-bottom: 0px;">
        <font size="6"><input onkeyup="adhno()" type="text"
id="adhid" size="23"></font>
    </td>
    <td>&nbsp;</td>
</tr>
<tr style="padding: 0px;">
    <td></td>
    <td height="10px" style="padding:0px">
        <p align=" center">
            <span id="adhop"></span>
        </td>
    <td style="padding: 0px;">&nbsp;</td>
</tr>
<!-- ***** Mobile no ***** -->
<tr>
    <td style="padding-bottom: 0px;" width="295">
        <p align="right"><b>
            <font size="4">Enter Phone Number:</font>
        </b>
    </td>
    <td style="padding-bottom: 0px;">
        <font size="6"><input onkeyup="phnof()" type="text"
id="phid" size="23"></font>
    </td>
    <td>&nbsp;</td>
</tr>
<tr style="padding: 0px;">
    <td></td>
    <td height="10px" style="padding:0px">
        <p align=" center">
            <span id="phno"></span>
        </td>
    <td style="padding: 0px;">&nbsp;</td>
</tr>
```

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```
<tr>
  <td width="295">
    <p align="right"><b>
      <font size="4">Choose Hobbies: </font>
    </b>
  </td>
  <td>
    <input type="checkbox" id="cb1" value="ON" style="font-
weight: 700"><b>Reading</b>
    <p>
      <input type="checkbox" id="cb2" value="ON"
style="font-weight: 700"><b>Listening
      to Music</b>
    </p>
    <p>
      <input type="checkbox" id="cb3" value="ON"
style="font-weight: 700"><b>Playing
      Games</b>
    </p>
    <span id="cbxop"></span>
  </td>
</tr>
<tr>
  <td width="295" bordercolorlight="#FF00FF"
bordercolordark="#800000">
    <p align="right"><b>
      <font size="4">Choose Your Stream:</font>
    </b>
  </td>
  <td>
    <input type="radio" id="rb1" value="V1" style="font-
weight: 700"><b>Science</b>
    <p>
      <input type="radio" id="rb2" value="V2" style="font-
weight: 700"><b>Commerce</b>
    </p>
    <p>
      <input type="radio" id="rb3" value="V3" style="font-
weight: 700"><b>Arts</b>
    </p>
    <span id="rbop"></span>
  </td>
  <td>&nbsp;</td>
```

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```
</tr>
<tr>
  <td width="295">
    <p align="right"><b>
      <font size="4">Choose Transportation</font>
    </b>
  </td>
  <td><select size="1" name="D1">
    <option>Choose one option</option>
    <option id="dd1">Car</option>
    <option id="dd2">Bus</option>
    <option id="dd3">Cycle</option>
    <option id="dd4">Bike</option>
  </select><br>
    <span id="ddop"></span>
  </td>
  <td>&nbsp;</td>
</tr>

<tr>
  <td width="295">&nbsp;</td>
  <td>&nbsp;</td>
  <td>&nbsp;</td>
</tr>
</table>
</div>
<p>&nbsp;</p>
<p align="center">

  <input type="button" onclick="validate()" id="" value="SUBMIT">

</p>
</form>

</body>
</html>
```

JS

```
function validuser() {
  let un = document.getElementById("U").value
```

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```
let y = /^w{5,15}$/
if (!un.match(y)) {
    document.getElementById("uerror").innerHTML = "USERNAME Not valid"
    document.getElementById("uerror").style.color = "red";
    document.getElementById("uerror").style.fontWeight = "bold";
}
else {

    document.getElementById("uerror").innerHTML = "Valid USERNAME"
    document.getElementById("uerror").style.color = "green";
    document.getElementById("uerror").style.fontWeight = "bold";
}
}

function validpass() {
    let pa = document.getElementById("pass").value
    // let a = /^(?=<alpha>.*[a-zA-z]+)(?=<num>.*\d+)(?=<sc>.*[!@#$%&*?&]+){8,}$/
    // let a = /^(?=. *[a-zA-z]+)(?=. *\d+)(?=. *[@$!%*?&]+){8,}$/
    let a = /[a-z]+[A-Z]+/
    let b = /[0-9]+/
    let c = /[!@#$%&*?&#]+/
    let d = /^(?=. {8,}$).*/
    if (!pa.match(d)) {
        document.getElementById("perr0").style.color = "red";
        document.getElementById("perr0").style.fontWeight = "bold";
    }
    else {
        document.getElementById("perr0").style.color = "green";
        document.getElementById("perr0").style.fontWeight = "bold";
    }
    if (!pa.match(a)) {
        document.getElementById("perr1").style.color = "red";
        document.getElementById("perr1").style.fontWeight = "bold";
    }
    else {
        document.getElementById("perr1").style.color = "green";
        document.getElementById("perr1").style.fontWeight = "bold";
    }
    if (!pa.match(b)) {
        document.getElementById("perr2").style.color = "red";
        document.getElementById("perr2").style.fontWeight = "bold";
    }
    else {
        document.getElementById("perr2").style.color = "green";
    }
}
```

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```
        document.getElementById("perr2").style.fontWeight = "bold";
    }
    if (!pa.match(c)) {
        document.getElementById("perr3").style.color = "red";
        document.getElementById("perr3").style.fontWeight = "bold";
    }
    else {
        document.getElementById("perr3").style.color = "green";
        document.getElementById("perr3").style.fontWeight = "bold";
    }
}

function conpass() {
    let cp = document.getElementById("cpid").value
    let cpa = document.getElementById("pass").value
    if (cp != cpa) {
        document.getElementById("cpop").innerHTML = "Password dosen't match";
        document.getElementById("cpop").style.color = "red";
        document.getElementById("cpop").style.fontWeight = "bold";
    }
    else {
        document.getElementById("cpop").innerHTML = "Correct Password";
        document.getElementById("cpop").style.color = "green";
        document.getElementById("cpop").style.fontWeight = "bold";
    }
}

function emailid() {
    let e = document.getElementById("emid").value
    let z = /^[A-Za-z0-9]+@[A-Za-z]+\.[a-zA-Z]*\.[A-Za-z]+$/

    if (!e.match(z)) {
        document.getElementById("emidop").innerHTML = "Email id Invalid";
        document.getElementById("emidop").style.color = "red";
        document.getElementById("emidop").style.fontWeight = "bold";
    }
    else {
        document.getElementById("emidop").innerHTML = "Valid";
        document.getElementById("emidop").style.color = "green";
        document.getElementById("emidop").style.fontWeight = "bold";
    }
}

function panno() {
```

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```
let p = document.getElementById("panid").value;
let r = /^[A-Z]{5}[0-9]{4}[A-Z]{1}$/
if (!p.match(r)) {
    document.getElementById("panop").innerHTML = "Pancard Number Invalid";
    document.getElementById("panop").style.color = "red";
    document.getElementById("panop").style.fontWeight = "bold";
}
else {
    document.getElementById("panop").innerHTML = "Valid";
    document.getElementById("panop").style.color = "green";
    document.getElementById("panop").style.fontWeight = "bold";
}
}

function adhno() {
    let a = document.getElementById("adhid").value;
    let r = /^[0-9]{12}$/
    if (!a.match(r)) {
        document.getElementById("adhop").innerHTML = "Aadhar Number Invalid";
        document.getElementById("adhop").style.color = "red";
        document.getElementById("adhop").style.fontWeight = "bold";
    }
    else {
        document.getElementById("adhop").innerHTML = "Valid";
        document.getElementById("adhop").style.color = "green";
        document.getElementById("adhop").style.fontWeight = "bold";
    }
}

function phnof() {
    let a = document.getElementById("phid").value;
    let r = /^[0-9]{10}$/
    if (!a.match(r)) {
        document.getElementById("phno").innerHTML = "Phone Number Invalid";
        document.getElementById("phno").style.color = "red";
        document.getElementById("phno").style.fontWeight = "bold";
    }
    else {
        document.getElementById("phno").innerHTML = "Valid";
        document.getElementById("phno").style.color = "green";
        document.getElementById("phno").style.fontWeight = "bold";
    }
}

function validate() {
```



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```
let cb1 = document.getElementById("cb1")
let cb2 = document.getElementById("cb2")
let cb3 = document.getElementById("cb3")
let c1 = cb1.checked || cb2.checked || cb3.checked
console.log(c1)

if (c1 == false) {
    document.getElementById("cbxop").innerHTML = "Please select atleast one
checkbox"
    document.getElementById("cbxop").style.color = "red";
    document.getElementById("cbxop").style.fontWeight = "bold";
}
else {
    document.getElementById("cbxop").innerHTML = ""
}

let r1 = document.getElementById("rb1")
let r2 = document.getElementById("rb2")
let r3 = document.getElementById("rb3")
let r = r1.checked || r2.checked || r3.checked

if (r == false) {
    document.getElementById("rbop").innerHTML = "Please select atleast one"
    document.getElementById("rbop").style.color = "red";
    document.getElementById("rbop").style.fontWeight = "bold";
}
else {
    document.getElementById("rbop").innerHTML = ""
}

let d1 = document.getElementById("dd1")
let d2 = document.getElementById("dd2")
let d3 = document.getElementById("dd3")
let d4 = document.getElementById("dd4")
let d = d1.selected || d2.selected || d3.selected || d4.selected
console.log("d", d)
if (d == false) {

    console.log("d")
    document.getElementById("ddop").innerHTML = "Please select atleast one"
    document.getElementById("ddop").style.color = "red";
    document.getElementById("ddop").style.fontWeight = "bold";
}
else {
```

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```
document.getElementById("ddop").innerHTML = ""  
}  
  
}
```

## B.2 Output

*(Take screen shots of the output at run time and paste it here)*

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Form

## REGISTRATION FORM

UserName :	<input type="text" value="dwxS"/>
	<b>USERNAME Not valid</b> (Username should have min 5 characters and No special characters)
Password :	<input type="password"/>
	<b>Password must contain:</b> Minimum 8 characters Uppercase and lowercase character Atleast 1 Number Special character
Confirm Password :	<input type="password"/>
Enter Email Id:	<input type="text"/>
Enter PAN Number:	<input type="text"/>
Enter Aadhar Number:	<input type="text"/>
Enter Phone Number:	<input type="text"/>
Choose Hobbies:	<input type="checkbox"/> Reading <input type="checkbox"/> Listening to Music <input type="checkbox"/> Playing Games
Choose Your Stream:	<input type="radio"/> Science <input type="radio"/> Commerce <input type="radio"/> Arts
Choose Transportation	<input type="text" value="Choose one option"/>

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Username

**UserName :**

awxs

**USERNAME Not valid**  
(Username should have min 5  
characters and No special  
characters)

**UserName :**

AS231

**Valid USERNAME**  
(Username should have min 5  
characters and No special  
characters)

Password

**Password :**

a

**Password must contain:**  
**Minimum 8 characters**  
**Uppercase and lowercase**  
**character**  
**Atleast 1 Number**  
**Special character**

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**Password :**

**Password must contain:**  
**Minimum 8 characters**  
**Uppercase and lowercase**  
**character**  
**Atleast 1 Number**  
**Special character**

**Password :**

**Password must contain:**  
**Minimum 8 characters**  
**Uppercase and lowercase**  
**character**  
**Atleast 1 Number**  
**Special character**

**Password :**

**Password must contain:**  
**Minimum 8 characters**  
**Uppercase and lowercase**  
**character**  
**Atleast 1 Number**  
**Special character**

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**Password :**

**Password must contain:**  
**Minimum 8 characters**  
**Uppercase and lowercase**  
**character**  
**Atleast 1 Number**  
**Special character**

Confirm Password

**Confirm  
Password :**

**Password dosen't match**

**Confirm  
Password :**

**Correct Password**

Email id

**Enter Email  
Id:**

**Email id Invalid**

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**Enter Email  
Id:**

**Valid**

**Enter Email  
Id:**

**Email id Invalid**

**Enter Email  
Id:**

**Valid**

Pan number

**Enter PAN  
Number:**

**Pancard Number Invalid**

**Enter PAN  
Number:**

**Valid**

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Aadhar number

**Enter Aadhar  
Number:**

**Aadhar Number Invalid**

**Enter Aadhar  
Number:**

**Valid**

Phone number

**Enter Phone  
Number:**

**Phone Number Invalid**

**Enter Phone  
Number:**

**Valid**



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Checkbox

**Choose  
Hobbies:**

- ☐ **Reading**
- ☐ **Listening to Music**
- ☐ **Playing Games**

**Please select atleast one  
checkbox**

**Choose  
Hobbies:**

- ☐ **Reading**
- ☒ **Listening to Music**
- ☐ **Playing Games**

Radio box

**Choose Your  
Stream:**

- ☐ **Science**
- ☐ **Commerce**
- ☐ **Arts**

**Please select atleast one**

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**Choose Your Stream:**

☐ Science

☐ Commerce

☒ Arts

Dropdown box

**Choose Transportation**

**Please select atleast one**

**Choose Transportation**

**B.3 Conclusion:**

*(Students must write the conclusion as per the attainment of individual outcome listed above)*

Validated HTML forms using JavaScript

**B.3 Observations and Learning:**

*(Students must write their observations and learnings as per the attainment of individual outcome listed above)*

Learnt how to use different functions and html attributes to validate a form

**B.4 Question of Curiosity**

*(To be answered by student based on the practical performed and learning/observations)*

Q1. Why are validations necessary in HTML forms? Explain with suitable reason.

- Validations are necessary in HTML forms to ensure that the data entered by users is accurate, complete, and consistent with the expected format.

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- Validations help prevent common errors, such as leaving required fields blank
- Validations ensure that the data entered into the form is accurate and consistent.
- Validations can help ensure that the data entered into the form complies with legal or regulatory requirements.

Q2. List down the different validators that can be used in an HTML form? Explain any three of them with script syntax and example.

- Required attribute
- Pattern attribute
- Maxlength and Minlength attributes
- Max and Min attributes
- Step attribute
- Email attribute
- URL attribute
- Date and Time attributes
- Checkbox and Radio button attributes
- **Required Attribute:** This validator is used to make sure that a user fills out a specific field in the form. It is applied to an input element and prevents the form from being submitted until the field has been filled out.

```
• <label for="username">Username:</label>
• <input type="text" id="username" name="username" required>
•
```

- **Pattern Attribute:** This validator is used to ensure that the user enters data in the correct format. It is applied to an input element and uses a regular expression to validate the input.

```
• <label for="zipcode">Zipcode:</label>
• <input type="text" id="zipcode" name="zipcode" pattern="[0-9]{5}"
  title="Please enter a valid zipcode">
```

- **Min and Max Attributes:** These validators are used to ensure that a numeric value entered by the user is within a certain range. They are applied to an input element with a type of number or range.

```
• <label for="age">Age:</label>
• <input type="number" id="age" name="age" min="18" max="120"></input>
```