

➤ **Lab4**➤ **Question: -**

-
- 1. WAP to prepare student registration form and validate it using JavaScript.**

```
<!DOCTYPE html>
<html lang="en">
<body>
  <center>
    <table>
      <tr>
        <td>Username</td>
        <td>
          <input type="text" name="uname" id="name">
        </td>
        <td><p id="emsg" style="color: red;"></p></td>
      </tr>
      <tr>
        <td>Email</td>
        <td>
          <input type="text" name="email" id="email">
        </td>
        <td><p id="emailmsg" style="color: red;"></p></td>
      </tr>
      <tr>
        <td>Mobile Number</td>
        <td>
          <input type="number" name="phn" id="num">
        </td>
        <td><p id="nummsg" style="color: red;"></p></td>
      </tr>
      <tr>
        <td>Password</td>
        <td>
          <input type="password" name="psw" id="psw">
        </td>
        <td><p id="pswmsg" style="color: red;"></p></td>
      </tr>
      <tr>
        <td>
          <button type="submit"
onclick="validation()">Submit</button>
        </td>
      </tr>
    </table>
  </center>
</body>
</html>
```

```
</table>
</center>
<script>
    var uname=document.getElementById("name");
    var email=document.getElementById("email");
    var number=document.getElementById("num");
    var password=document.getElementById("psw");
    function validation()
    {
        //var pattern=/^[a-zA-Z0-9_\.]{2,}$/;
        //var regexp= new RegExp(pattern);
        if(RegExp(/^[a-zA-Z0-9_\.]{2,}$/).test(uname.value))
        {
            document.getElementById('emsg').innerHTML= ' ';
        }
        else
        {
            document.getElementById('emsg').innerHTML="Invalid";
        }

        if(RegExp(/^[a-zA-Z0-9]+\@[a-z]+\.[a-z]/).test(email.value))
        {
            document.getElementById('emailmsg').innerHTML= ' ';
        }
        else{
            document.getElementById('emailmsg').innerHTML='Invalid';
        }

        if(RegExp(/^[0-9]{10}/).test(number.value))
        {
            document.getElementById('nummsg').innerHTML= ' ';
        }
        else
        {
            document.getElementById('nummsg').innerHTML='Invalid';
        }

        if(RegExp(/^[a-z0-9]{8,}/).test(password.value))
        {
            document.getElementById('pswmsg').innerHTML= ' ';
        }
        else
        {

```

```

        document.getElementById('pswmsg').innerHTML='Invalid';
    }
}
</script>
</body>
</html>

```

Username	<input type="text" value="Vraj0282"/>	Username	<input type="text" value="Vra"/>	
Email	<input type="text" value="vraj@gmail.com"/>	Email	<input type="text" value="vraj@gma"/>	Invalid
Mobile Number	<input type="text" value="6352566307"/>	Mobile Number	<input type="text" value="635256"/>	Invalid
Password	<input type="password" value="....."/>	Password	<input type="password" value="....."/>	Invalid
<input type="button" value="Submit"/>		<input type="button" value="Submit"/>		

➤ 2. WAP using HTML, CSS, JavaScript to design simple calculator with GUI.

```

<html>
  <head></head>
  <body>
    <center>
      <form>
        <h1>Simple calculator</h1>
        <table>
          <tr>
            <td><label>Number1</label></td>
            <td><input type="text" id="n1"></td>
            <td>
              <select id="s1">
                <option>+</option>
                <option>-</option>
                <option>*</option>
                <option>/</option>
              </select>
            </td>
            <td><label>Number2</label></td>
            <td><input type="text" id="n2"></td>
            <td>

```

```
        <button id="btn" type="submit"
onclick="calculator()">Submit</button>
    </td>
</tr>
<tr>
    <td>
        <label id="output"></label>
    </td>
</tr>
</table>
</form>
</center>
<script>
    function calculator()
    {
        let n1=parseInt(document.getElementById("n1").value);
        let n2=parseInt(document.getElementById("n2").value);
        let opt=document.getElementById("s1").value;
        let ans=document.getElementById("output");
        if(opt=='+')
            ans.innerHTML=document.write("Addition is:"+(n1+n2));
        else if(opt=='-')
            ans.innerHTML=document.write("Subtraction is:"+(n1-n2));
        else if(opt=='*')
            ans.innerHTML=document.write("Multiplaction is:"+(n1*n2));
        else if(opt=='/')
            ans.innerHTML=document.write("Division is:"+(n1/n2));
        else
            ans.innerHTML=document.write("Invalid input");
    }
</script>
</body>
</html>
```

Simple calculator

Number1 Number2

➤ **3. WAP using HTML, CSS, JavaScript to design advance calculator with GUI.**

```
<html>
  <head>
    <style>
      div{
        height: 750px;
        width: 500px;
        background-color: azure;
        border: 2px solid black;
      }
      input{
        width: 420px;
        height: 50px;
        font-size: 20px;
      }
      button{
        height: 100px;
        width: 100px;
        font-size: 20px;
      }
    </style>
  </head>
  <body>
    <center>

      <div>
        <h1>Simple calculator</h1>
        <br>
        <input type="text" id="display">
        <br>
        <br>
        <br>
        <button onclick="cleardisplay()">C</button>
        <button onclick="appendCharacter('/')">/</button>
        <button onclick="appendCharacter('*')">*</button>
        <button onclick="appendCharacter('%')">%</button>
        <br>
        <button onclick="appendCharacter('7')">7</button>
        <button onclick="appendCharacter('8')">8</button>
        <button onclick="appendCharacter('9')">9</button>
```

```
<button onclick="appendCharacter('+')">+</button>
<br>
<button onclick="appendCharacter('4')">4</button>
<button onclick="appendCharacter('5')">5</button>
<button onclick="appendCharacter('6')">6</button>
<button onclick="appendCharacter('-')">-</button>
<br>
<button onclick="appendCharacter('1')">1</button>
<button onclick="appendCharacter('2')">2</button>
<button onclick="appendCharacter('3')">3</button>
<button onclick="calculate()">=</button>
<br>
<br>
<button onclick="remove()">Delete</button>
</div>
</center>
<script>
    function cleardisplay()
    {
        document.getElementById("display").value="";
    }
    function appendCharacter(char)
    {
        document.getElementById("display").value += char;
    }
    function calculate()
    {
        document.getElementById("display").value=eval(document.getElementBy
entById("display").value);
    }
    function remove()
    {
        document.getElementById("display").value
=(document.getElementById("display").value).slice(0,-1);
    }
</script>
</body>
</html>
```

Simple calculator

C	/	*	%
7	8	9	+
4	5	6	-
1	2	3	=

Delete