

- > Lab4
- > Question: -
- > 1. WAP to prepare student registration form and validate it using JavaScript.

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



```
</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
```

1



में से की जात म	<pre>document.getElementById('pswmsg').innerHTML='Invalid';</pre>				
}	8e e==emerres)	(poims ₈)•±1			
}					
Username	Vrai0202	Username	Vra		
Osemanie	Vraj0282			_	
Email	vraj@gmail.com	Email	vraj@gma	Invalid	
Lillaii	vraj@gmaii.com	ļ			
Mobile Number	6352566307	Mobile Number	635256	Invalid	
)		_	
Password	•••••	Password	••••	Invalid	
		1 455 11 01 4		mvana	
Submit		Submit			

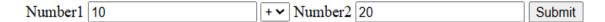
> 2. WAP using HTML, CSS, JavaScript to design simple calculator with GUI.

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



```
<button id="btn" type="submit"</pre>
onclick="calculator()">Submit</button>
                       <label id="output"></label>
                   </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





> 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>
                <input type="text" id="display">
                <br>
                <br>
                <button onclick="cleardisplay()">C</button>
                <button onclick="appendCharacter('/')">/</button>
                <button onclick="appendCharacter('*')">*</button>
                <button onclick="appendCharacter('%')">%</button>
                <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.getElem
entById("display").value);
           function remove()
               document.getElementById("display").value
=(document.getElementById("display").value).slice(0,-1);
       </script>
   </body>
</html>
```



Simple calculator							
С	/	*	%				
7	8	9	+				
4	5	6	-				
1	2	3	=				
Delete							