a)Develop a static web application and deploy it in any one of the web servers (WAMP/Apache Tomcat/IIS).

Code:-

```
<html>
<head>
 <title>Registration form</title>
</head>
<body>
 <form>
  <center>
   <h1>Registration Form</h1>
   Username: 
      <input id="Username" type="text"/>
    Password: 
      <input id="Password" type="text"/>
    Email: 
      <input id="Email" type="email"/>
```

```
Mobile: 
        <input id="mobile" type="number"/>
       <center>
           <input type="submit" onsubmit="" />
           <input type="reset" onsubmit="" />
          </center>
        </center>
  </form>
 </body>
</html>
OUTPUT:-
    C @ localhost/588/hello.html
                               Registration Form
                               Username:
                                   Submit Reset
```

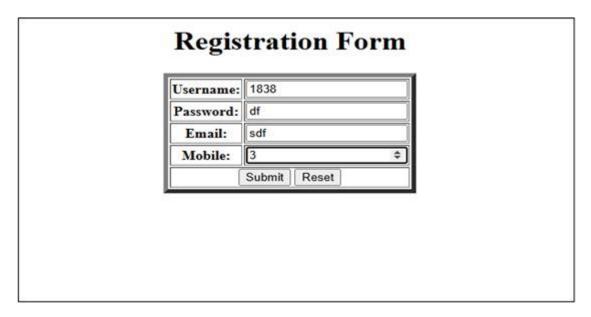
b)Develop a JavaScript program to validate the client-side user input data (Example: username, password, email, phone number).

Code:-

```
<html>
 <head>
  <title>Registration form</title>
 </head>
 <body>
  <form>
   <center>
     <h1>Registration Form</h1>
     Username: 
       <input id="Username" type="text" required/>
      Password: 
       <input id="Password" type="text"/>
      Email: 
       <input id="Email" type="text"/>
      Mobile: 
       <input id="mobile" type="number"/>
      <center>
         <input type="button" onclick="Validate()" value="Submit" />
         <input type="reset" />
        </center>
```

```
</center>
   </form>
 </body>
 <script>
   function Validate()
     var name = document.getElementById("Username").value;
     var pwd = document.getElementById("Password").value;
     var mail = document.getElementById("Email").value;
     var phno = document.getElementById("mobile").value;
     z\d@.#$!%*?&]{8,15}$/;
     const emailValid = /^[a-zA-Z0-9._\%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
     const nameValid = /^[a-zA-Z]$/;
      var atposition=mail.indexOf("@");
     var dotposition=mail.lastIndexOf(".");
     if(name==="" || name.length<3)
        alert("max characters should be 3-25");
     else if(!nameValid.test(name))
        alert("name should contain only alphabets");
     if(pwd.length<8){
        alert("password should be atleast 8 characters");
     else if(!pwdValid.test(pwd)){
        alert("password should contain atleast 1 Capital,1 special character and numerical
value");
     if(mail.length===""||mail.length<4)
        alert("email should be atleast 4 characters")
     else if(atposition<1 || dotposition<atposition+2 || dotposition+2>=mail.length){
        alert("Please enter a valid e-mail address \n atpostion:"+atposition+"\n
dotposition:"+dotposition);
     if(phno.length<10 || phno.length>10)
        alert("length of mobile no should be 10 digits");
 </script>
</html>
```

OUTPUT:-



Enter the data without following constraints and click on the **Submit button** the Outputs are as follows

