Code-

Form Validation-

```
<!DOCTYPE html>

<html>  <head>    <title>CSS FORM</title>

    <style>

     .BG {

       background-image: url(/login.jpg);

       background-size: cover;

       background-repeat: no-repeat;

       background-position: center;

     }

     .head {

       text-align: center;

       color: yellow;

     }

     .form {

       max-width: 15%;

       margin: 12% auto;

     }

     .form input {

       margin: 10px 0;

       width: 100%;

       font-size: 14px;

       border: 2px solid grey;

       border-radius: 6px;

       padding: 3px;

     }

    </style>

  </head>

  <body class="BG">

    <form name="myForm" action="/" onsubmit="return validateForm()" method="#"
target="_self">

      <div class="form">

       Username:<input type="username" id="username" name="username" placeholder="Enter
your username" required/>
```

Password:<input type="password" id="password" name="password" placeholder="Enter password" required/>


```html
        <input type="submit" value="Submit" /><input type="reset" value="Reset"/>

      </div>

    </form>

  </body>

</html>

<script>

  function validateForm() {

    let USERNAME = document.forms["myForm"]["username"].value;

    let PASSWORD = document.forms["myForm"]["password"].value;

    if(USERNAME == "shantanubajaj" && PASSWORD == "password") alert("Login Success");

    else

    {

      alert("Invalid Credentials");

      return false;

    } }

</script>
```

Event Handling-

```html
<!DOCTYPE html>

<html>

  <head>

    <style>

      div {

        width: 100px;

        height: 100px;

        border: 1px solid black;

        margin: 10px;

        float: left;

        padding: 30px;

        text-align: center;

        background-color: lightgray;

      }

      p {

        background-color: white;
```

```
        }

      </style>

  </head>

  <body>

    <h2>JavaScript HTML Events</h2>

    <p>Click the button to display the date.</p>

    <button onclick="displayDate()">The time is?</button>

    <p id="demo"></p>

    <h3>This example demonstrates the difference between onmousemove, onmouseenter and
onmouseover.</h3>

    <p>The onmousemove event occurs every time the mouse pointer is moved over the div
element.</p>

    <p>The mouseenter event only occurs when the mouse pointer enters the div element.</p>

    <p>The onmouseover event occurs when the mouse pointer enters the div element, and its
child elements (p and span).</p>

    <div onmousemove="myMoveFunction()">

      <p>onmousemove: <br /><span id="demo1">Mouse over me!</span></p>

    </div>

    <div onmouseenter="myEnterFunction()">

      <p>onmouseenter: <br /><span id="demo2">Mouse over me!</span></p>    </div>

    <div onmouseover="myOverFunction()">

      <p>onmouseover: <br /><span id="demo3">Mouse over me!</span></p>    </div>

    <p>Press and hold down a key inside the text field to set a red background color. Release the
key to set a green background color.</p>

    <input type="text" id="demo4" onkeydown="keydownFunction()"
onkeyup="keyupFunction()"/>

    <p>A function is triggered when the user releases a key in the input field.The function outputs
the actual key/letter that was released inside the text field.</p>

    Enter your name: <input type="text" id="fname" onkeyup="myFunction()" />

    <p>My name is: <span id="demo5"></span></p>

    <script>

      function displayDate() {

        document.getElementById("demo").innerHTML = Date();

      } var x = 0;     var y = 0;     var z = 0;

      function myMoveFunction() {

        document.getElementById("demo1").innerHTML = z += 1;     }

      function myEnterFunction() {

        document.getElementById("demo2").innerHTML = x += 1;     }
```

```javascript
    function myOverFunction() {

      document.getElementById("demo3").innerHTML = y += 1;      }

    function keydownFunction() {

      document.getElementById("demo4").style.backgroundColor = "red";      }

    function keyupFunction() {

      document.getElementById("demo4").style.backgroundColor = "green";      }

    function myFunction() {

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

      document.getElementById("demo5").innerHTML = x;      }

  </script>  </body></html>
```

Output-

JavaScript HTML Events

Click the button to display the date.

[The time is?]

Wed Nov 09 2022 21:22:36 GMT+0530 (India Standard Time)

This example demonstrates the difference between onmousemove, onmouseenter and onmouseover.

The onmousemove event occurs every time the mouse pointer is moved over the div element.

The mouseenter event only occurs when the mouse pointer enters the div element.

The onmouseover event occurs when the mouse pointer enters the div element, and its child elements (p and span).

Press and hold down a key inside the text field to set a red background color. Release the key to set a green background color.

onmousemove: 161

onmouseenter: 8

onmouseover: 26

A function is triggered when the user releases a key in the input field.The function outputs the actual key/letter that was released inside the text field.

Enter your name: Shant

My name is: Shant

Username:

shantanubajaj

Password:

Enter password

⚠ Please fill out this field.

Reset