

JS ASSIGNMENT- FORM VALIDATION

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1.)

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Append Water</title>
7      <style>
8          #list-items{
9              font-family: Arial, Helvetica, sans-serif;
10             color: black;
11         }
12     </style>
13 </head>
14 <body>
15     <ul id="list-items" type="Circle">
16         <li>Circle</li>
17         <li>Tea</li>
18         <li>_ _ _</li>
19     </ul>
20     <button onclick="appendWater()">Add Water</button>
21     <script>
22         function appendWater(){
23             var items=document.querySelectorAll('#list-items li');
24             items.forEach(function(item){
25                 item.textContent += "Water";
26                 item.style.fontFamily="Courier, monospace";
27                 item.style.color="blue";
28             });
29         }
30     </script>
31 </body>
32 </html>
```

OUTPUT:

- Circle
- Tea
- _ _ _

Add Water

After clicking Add Water Button 3 Times:

- CircleWaterWaterWater
- TeaWaterWaterWater
- _ _ _WaterWaterWater

Add Water

2.)

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Student Registration Form</title>
7 <style>
8   .error {
9     color: red;
10  }
11 </style>
12 </head>
13 <body>
14
15 <h2>Student Registration Form</h2>
16 <form id="registrationForm" onsubmit="validateForm(); return false;">
17   <label for="name">Name:</label>
18   <input type="text" id="name" name="name"><span id="nameError" class="error"></span><br><br>
19
20   <label for="mobile">Mobile No:</label>
21   <input type="text" id="mobile" name="mobile"><span id="mobileError" class="error"></span><br><br>
22
23   <label for="pincode">Pin code:</label>
24   <input type="text" id="pincode" name="pincode"><span id="pincodeError" class="error"></span><br><br>
25
26   <input type="submit" value="Submit">
27   <input type="reset" value="reset">
28 </form>
29 <script>
30 function validateForm() {
31   // Fetching input field values
32   var name = document.getElementById("name").value;
33   var mobile = document.getElementById("mobile").value;
34   var pincode = document.getElementById("pincode").value;
35
36   // Resetting previous errors
37   document.getElementById("nameError").innerHTML = "";
38   document.getElementById("mobileError").innerHTML = "";
39   document.getElementById("pincodeError").innerHTML = "";
```

```

var isValid = true;

// Validating name field
if (name === "") {
    document.getElementById("nameError").innerHTML = "Name is required";
    isValid = false;
} else if (!/^[a-zA-Z\s]+$/.test(name)) {
    document.getElementById("nameError").innerHTML = "Name should contain only alphabets";
    isValid = false;
}

// Validating mobile number field
if (mobile === "") {
    document.getElementById("mobileError").innerHTML = "Mobile No is required";
    isValid = false;
} else if (!/^\\d{10}$/.test(mobile)) {
    document.getElementById("mobileError").innerHTML = "Mobile No should be of 10 digits";
    isValid = false;
}

// Validating pin code field
if (pincode === "") {
    document.getElementById("pincodeError").innerHTML = "Pin code is required";
    isValid = false;
} else if (!/^\\d{6}$/.test(pincode)) {
    document.getElementById("pincodeError").innerHTML = "Pin code should be of 6 digits";
    isValid = false;
}

if (isValid) {
    alert("Form submitted successfully!");
    // Here you can add code to submit the form data to a server or perform other actions.
}
}
</script>
</body>
</html>

```

Output:

Student Registration Form

Name:

Mobile No:

Pin code:

3a.)

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <title>Student Registration Form</title>
7  <style>
8      input[type=text], input[type=tel], input[type=email], input[type=password] {
9          width: 100%;
10         padding: 12px 20px;
11         margin: 8px 0;
12         box-sizing: border-box;
13     }
14
15     button {
16         background-color: #4CAF50;
17         color: white;
18         padding: 14px 20px;
19         margin: 8px 0;
20         border: none;
21         cursor: pointer;
22         width: 100%;
23     }
24
25     button:hover {
26         opacity: 0.8;
27     }
28
29     .container {
30         padding: 16px;
31     }
32
33     span {
34         color: red;
35     }
36 </style>
37 </head>
38 <body>
39
40 <h2>Student Registration Form</h2>
41
42 <div class="container">
43     <form id="registrationForm" onsubmit="return validateForm()">
44         <label for="name">Name</label>
```

```

        <input type="text" id="name" name="name" placeholder="Enter your name">

        <label for="mobile">Mobile No</label>
        <input type="tel" id="mobile" name="mobile" placeholder="Enter your mobile number">

        <label for="pincode">Pin code</label>
        <input type="text" id="pincode" name="pincode" placeholder="Enter your pin code">

        <button type="submit">Register</button>
    </form>
</div>
<script>

function validateForm() {
    var name = document.getElementById("name").value;
    var mobile = document.getElementById("mobile").value;
    var pincode = document.getElementById("pincode").value;

    return false;
}
window.onload = function() {
    document.getElementById("name").focus();
};
</script>

</body>
</html>

```

Output:

Student Registration Form

Name

Mobile No

Pin code

Register

3b.)

```
// Access by ID:
var cityFieldById = document.getElementById("city");

// Access by name:
var cityFieldsByName = document.getElementsByName("city");

// Access by tag name (if it's unique):
var cityFieldByTagName = document.getElementsByTagName("input");

//Access using querySelector (if you know its specific selector):
var cityFieldByQuerySelector = document.querySelector("#city");

//Access using querySelectorAll (if you want to select multiple elements with a specific selector):
var cityFieldsByQuerySelectorAll = document.querySelectorAll("input[name='city']");
```

3c.)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>When city is entered the pincode should be same</title>
  <label for="city">City</label>
  <select id="city" onchange="updatePincode()">
    <option value="">Select a city</option>
    <option value="Nellore">Nellore</option>
    <option value="chennai">chennai</option>
    <option value="Tirupathi">Tirupathi</option>
  </select>

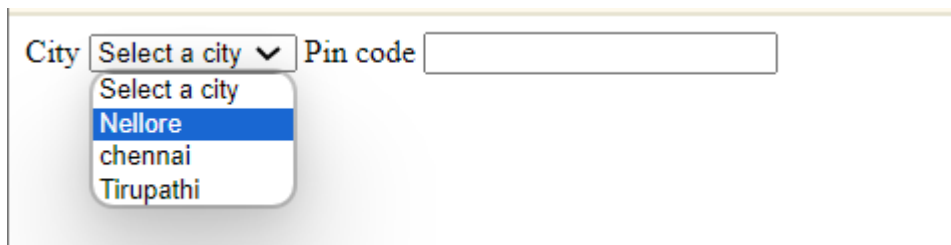
  <label for="pincode">Pin code</label>
  <input type="text" id="pincode" name="pincode" readonly>
</head>
<body>
  <script>
    function updatePincode() {
      var citySelect = document.getElementById("city");
      var pincodeInput = document.getElementById("pincode");
      var selectedCity = citySelect.value;

      switch (selectedCity) {
        case "Nellore":
          pincodeInput.value = "524126";
          break;
        case "chennai":
          pincodeInput.value = "524113";
          break;
        case "Tirupathi":
          pincodeInput.value = "789554";
          break;
        default:
          pincodeInput.value = "";
          break;
      }
    }
  </script>
</body>
</html>
```

Output:

City Pin code

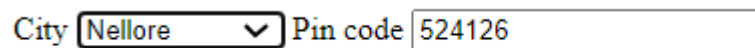
After clicking dropdown button:



City Pin code

Select a city
Nellore
chennai
Tirupathi

After clicking chosen one:



City Pin code

3d.)

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <form id="registrationForm" onsubmit="return validateForm()" onload="setFocus()">
8     <label for="name">Name of student</label>
9     <input type="text" id="name" name="name" placeholder="Enter your name">
10    <button type="submit">Register</button>
11  </form>
12
13 </head>
14 <body>
15   <script>
16     function setFocus() {
17       document.getElementById("name").focus();
18     }
19   </script>
20 </body>
21 </html>
```

Output:



Name of student

4.)

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>User Information Form</title>
7  </head>
8  <body>
9      <script>
10         function getUserInformation(){
11             var firstName=prompt("Enter your first name:");
12             var lastName=prompt("Enter your last name:");
13
14             if(firstName !==null && lastName !==null){
15                 var userInfo="First Name:" + firstName +"\n"+ "Last Name:" +lastName;
16
17                 alert(userInfo);
18             }
19             else{
20                 alert("You canceled the operation.");
21             }
22         }
23     </script>
24
25     <h2>User Information Form</h2>
26     <button onclick="getUserInformation()">Enter Information</button>
27 </body>
28 </html>
29
```

Output:

User Information Form

Enter Information

After clicking Enter information:

127.0.0.1:5500 says

Enter your first name:

OK Cancel

127.0.0.1:5500 says

Enter your last name

OK Cancel

127.0.0.1:5500 says

First Name:Naresh
Last Name:Hasthi

OK

5.)

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <title>Temperature Converter</title>
7  </head>
8  <body>
9
10 <script>
11 function convertToCelsius(fahrenheit) {
12 |   return (fahrenheit - 32) * 5 / 9;
13 }
14
15 function convertToFahrenheit(celsius) {
16 |   return (celsius * 9 / 5) + 32;
17 }
18
19 function temperatureConversion() {
20 |   var userInput = prompt("Enter temperature in degrees Celsius:");
21 |   var celsius = parseFloat(userInput);
22
23 |   if (!isNaN(celsius)) {
24 |     var fahrenheit = convertToFahrenheit(celsius);
25 |     alert("Temperature in Fahrenheit: " + fahrenheit.toFixed(2));
26 |   } else {
27 |     alert("Invalid input. Please enter a valid temperature in degrees Celsius.");
28 |   }
29 }
30 </script>
31
32 <h2>Temperature Converter</h2>
33 <button onclick="temperatureConversion()">Convert to Fahrenheit</button>
34
35 </body>
36 </html>
```

Output:

Temperature Converter

Convert to Fahrenheit

After clicking the button:

Input Celsius:

127.0.0.1:5500 says

Enter temperature in degrees Celsius:

OK Cancel

Output Fahrenheit:

127.0.0.1:5500 says

Temperature in Fahrenheit: 86.00

OK