Exercise 15: HTML/CSS, JavaScript

Design input forms that validate data (e.g., email, phone number) and display error messages using HTML/CSS, JavaScript (with Validator.js)

AIM:

The aim is to design input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js.

PROCEDURE:

Step 1: Setting Up the HTML Form

Start by creating an HTML form with input fields for the email and phone number.

html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta ch☐   arset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
    scale=1.0"> <title>Form Validation</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container">
        <form id="myForm">
            <label for="email">Email:</label>
            <input type="email" id="email" name="email" required>
```

```html
        <span id="emailError" class="error"></span>

        <label for="phone">Phone Number:</label>
        <input type="text" id="phone" name="phone" required>
        <span id="phoneError" class="error"></span>

        <button type="submit">Submit</button>
      </form>
    </div>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/validator/13.6.0/validator.min.js"></script
> <script src="script.js"></script>
</body>
</html>
```

OUTPUT:

Email: [_____] Phone Number: [_____] Submit

Step 2: Styling the Form with CSS

Next, add some basic styling to make the form look nice.

css style.cs s */ /* body {
☐   font-family: Arial,sans-
    serif; background-color:
    #f4f4f4; display: flex;
justify-content: center;
   align-items: center;

   height: 100vh;

   margin: 0;

```css
}
.container {
  background-color: white;
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

form {
  display: flex;
  flex-direction: column;
}

label {
  margin-bottom: 5px;
}

input {
  margin-bottom: 10px;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  padding: 10px;
  background-color: #28a745;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
```

```
}
```

```css
button:hover {  background-
    color: #218838;
}
```

```css
.error {  color: red;
    font-size:
    0.875em;
}
```

Step 3: Adding JavaScript for Validation

Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

javascript

```javascript
        script.js
         */  /*
    document.getElementById('myForm').addEventListener('submit',
function (e)
  { e.preventDefault();
  let email = document.getElementById('email').value;   let
  phone = document.getElementById('phone').value;  let
  emailError = document.getElementById('emailError');
  let phoneError =
  document.getElementById('phoneError');
  // Clear previous error messages
  emailError.textContent = ";
  phoneError.textContent = ";
```

```javascript
    // Validate email  if (!validator.isEmail(email)) {
    emailError.textContent = 'Please enter a valid email address.';
     }
    // Validate phone number
    if (!validator.isMobilePhone(phone, 'any')) {
       phoneError.textContent = 'Please enter a valid phone number.';
     }
    // If no errors, submit the form (for demonstration purposes, we'll just log the
    values)  if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {
    console.log('Email:', email);   console.log('Phone:', phone);
     }
});
```