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:

Step1: Setting Up the HTML Form Start by creating an HTML form with input fields for the email and phone number.

<!--index.html-->

<!DOCTYPEhtml>

<htmllang="en">

<head>

　<metacharset="UTF-8"/>

　<metaname="viewport"content="width=device-width,initial-scale=1.0"/>

```html
<title>FormValidation</title>
<linkrel="stylesheet"href="style.css"/>
</head>
<body>
  <divclass="container">
    <form id="myForm">
      <labelfor="email">Email:</label>
      <inputtype="email"id="email"name="email"required />
      <spanid="emailError"class="error"></span>

      <labelfor="phone">Phone Number:</label>
      <inputtype="text"id="phone"name="phone"required/>
      <spanid="phoneError"class="error"></span>

      <buttontype="submit">Submit</button>
    </form>
  </div>

  <script
src="https://cdnjs.cloudflare.com/ajax/libs/validator/13.6.0/validator.min.js"></script>
  <scriptsrc="script.js"></script>
```

```
</body>

</html>
```

Step2: Styling the Form with CSS Next, add some basic styling to make the form look nice.

```css
/* style.css*/

body{font-family:Arial,sans-serif;background-color:#f4f4f4;display:flex;
     justify-content: center; align-items: center; height: 100vh; margin: 0; }

.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:1pxsolid#ccc;border- radius:
     3px; }

button{padding:10px;background-color:#28a745;color:white;border:none;
     border-radius: 3px; cursor: pointer; }

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

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

Step3:Adding JavaScript for Validation Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

```javascript
//script.js

document.getElementById('myForm').addEventListener('submit',function(e){

  e.preventDefault();
```

```
const email = document.getElementById('email').value;

constphone=document.getElementById('phone').value;


const emailError = document.getElementById('emailError');

constphoneError=document.getElementById('phoneError');


//Clearpreviouserrormessages

emailError.textContent = '';

phoneError.textContent = '';


//Validate email

if(!validator.isEmail(email)){

  emailError.textContent= 'Pleaseenter avalidemailaddress.';

}


//Validate phonenumber

if (!validator.isMobilePhone(phone, 'any')) {

  phoneError.textContent='Pleaseenteravalidphonenumber.';

}


// Ifvalid,logtheinputvalues
```
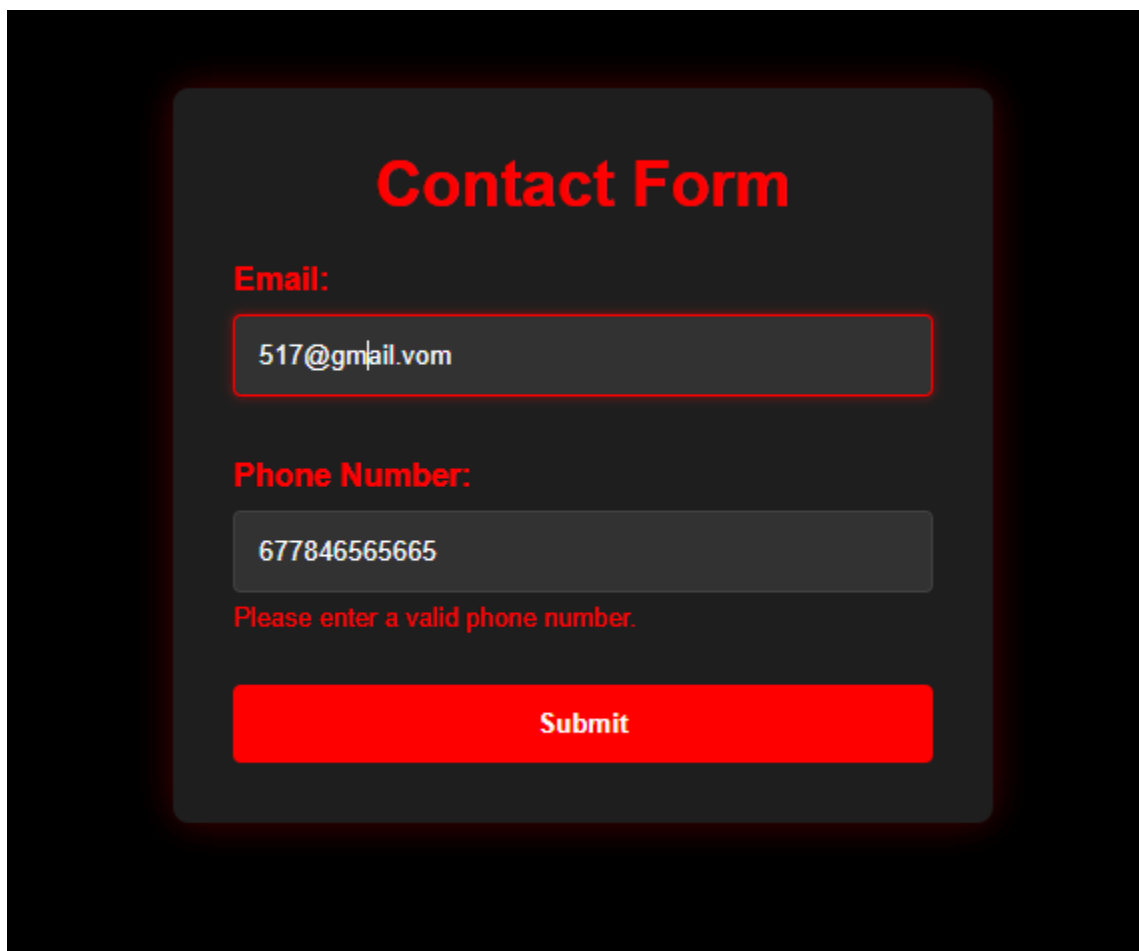
```
    if(validator.isEmail(email)&&validator.isMobilePhone(phone,'any')){

      console.log('Email:', email);

      console.log('Phone:',phone);

  }

});
```

OUTPUT:

RESULT:

Input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js has been designed.