Exercise 3

Form validation

#main.js

```
// JavaScript using name attribute
function validateForm() {
    const form = document.forms["registrationForm"];
    const username = form.elements["username"];
    const email = form.elements["email"];
    const password = form.elements["password"];
    const confirmPassword = form.elements["confirmPassword"];
    const phoneNumber = form.elements["phoneNumber"];
    const usernameError = document.getElementById("usernameError");
    const emailError = document.getElementById("emailError");
    const passwordError = document.getElementById("passwordError");
    const confirmPasswordError =
document.getElementById("confirmPasswordError");
    const phoneNumberError = document.getElementById("phoneNumberError");
    const usernamePattern = /^[a-zA-Z0-9]{3,20}$/;
    const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    const passwordPattern = /^(?=.*[a-z])(?=.*[A-Z])(?=.*[@#$])[A-Za-
z\d@#$]{8,}$/;
   let isValid = true;
   // Validate username
    if (!username.value.match(usernamePattern)) {
      usernameError.textContent = "Username should be between 3 and 20
alphanumeric characters.";
     isValid = false;
    } else {
     usernameError.textContent = "";
    // Validate email
    if (!email.value.match(emailPattern)) {
      emailError.textContent = "Invalid email address format.";
     isValid = false;
    } else {
      emailError.textContent = "";
   // Validate password
   if (!password.value.match(passwordPattern)) {
```

```
passwordError.textContent = "Password should be at least 8 characters
long, containing one uppercase letter, one lowercase letter, one number, and
one special character.";
      isValid = false;
    } else {
      passwordError.textContent = "";
   // Validate confirm password
    if (password.value !== confirmPassword.value) {
      confirmPasswordError.textContent = "Passwords do not match.";
      isValid = false;
    } else {
      confirmPasswordError.textContent = "";
    // Validate phone number
    if (!phoneNumber.value.match(/^\+91\s\d{10}$/)) {
      phoneNumberError.textContent = "Invalid phone number format. Should be
in the format +91 1234567890.";
      isValid = false;
    } else {
      phoneNumberError.textContent = "";
   return isValid;
```

#style.css

```
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f0f0f0;
}

form {
    margin: 20px auto;
    max-width: 400px;
    padding: 20px;
    background-color: #ffffff;
    border: 1px solid #ccc;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
}
```

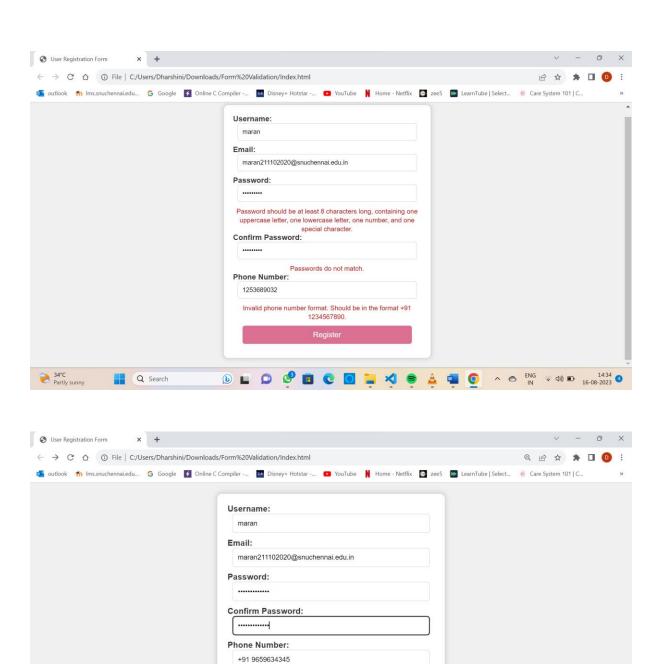
```
label {
  display: block;
  text-align: left;
  font-weight: bold;
input {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 5px;
.error {
  color: red;
  font-size: 14px;
  text-align: left;
input[type="submit"] {
  background-color:blueviolet;
  color: white;
  border: none;
  padding: 10px 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  margin-top: 10px;
  cursor: pointer;
  border-radius: 5px;
input[type="submit"]:hover {
  background-color: palevioletred;
/* Adding frame around the form */
form {
  border: 1px solid #ccc;
  padding: 20px;
  border-radius: 10px;
  background-color: #fff;
/* Styling the form inputs */
input {
```

```
width: 90%;
  padding: 10px;
 margin-bottom: 10px;
  border: 1px solid #ccc;
 border-radius: 5px;
/* Error message styling */
.error {
 color: rgb(192, 0, 0);
 font-size: 14px;
 text-align: left;
/* Additional styling for labels */
label {
 color: #333;
 font-size: 16px;
/* Styling for the submit button */
input[type="submit"] {
  background-color:palevioletred;
  color: white;
 border: none;
  padding: 10px 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
 margin-top: 10px;
  cursor: pointer;
 border-radius: 5px;
  transition: background-color 0.3s ease;
input[type="submit"]:hover {
 background-color:palevioletred;
```

#index.html

```
<link rel="stylesheet" type="text/css" href="Style.css">
</head>
<body>
  <form name="registrationForm" id="registrationForm" onsubmit="return</pre>
validateForm()">
    <label for="username">Username:</label>
    <input type="text" name="username" id="username">
    <span class="error" id="usernameError"></span><br>
    <label for="email">Email:</label>
    <input type="text" name="email" id="email">
    <span class="error" id="emailError"></span><br>
    <label for="password">Password:</label>
    <input type="password" name="password" id="password">
    <span class="error" id="passwordError"></span><br>
    <label for="confirmPassword">Confirm Password:</label>
    <input type="password" name="confirmPassword" id="confirmPassword">
    <span class="error" id="confirmPasswordError"></span><br>
    <label for="phoneNumber">Phone Number:</label>
    <input type="text" name="phoneNumber" id="phoneNumber">
    <span class="error" id="phoneNumberError"></span><br>
    <input type="submit" value="Register">
 </form>
 <script src="main.js"></script>
</body>
</html>
```

Output:



Partly sunny Q Search