Subject: Web Technology & It's Applications

Roll No: 205120037

Q1. Write JavaScript to validate the following fields of the Registration page.

1. First Name (Name should contains alphabets and the length should not be less than 6 characters).

2. Password (Password should not be less than 6 characters length).

3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)

4. Mobile Number (Phone number should contain 10 digits only).

5. Last Name and Address (should not be Empty).

Registration.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration Form</title>
    <link rel="stylesheet" href="style.css"/>
</head>
<body>
    <div id="form-container">
        <form name ="registration" id="registration" action="#" method="POST"
onsubmit="return form_validation(event)">
            <fieldset>
                <legend>Registration Form</legend>
                <label for="firstname">First Name:</label>
                <br>
                <input type="text" name="firstname" id="firstname" value="" >
```

```html
            <br>
            <label for="lastname">Last Name:</label>
            <br>
            <input type="text" name="lastname" id="lastname" value="" >

            <br>
            <label for="email">Email:</label>
            <br>
            <input type="email" name="email" id="email" value="">

            <br>
            <label for="email">Mobile Number:</label>
            <br>
            <input type="text" name="mobile" id="mobile" value="">

            <br>
            <label for="password">Password:</label>
            <br>
            <input type="password" name="password" id="password" value="">

            <br>
            <label for="email">Address:</label>
            <br>
            <textarea name="address" id="address" rows="6"
cols="35"></textarea>

            <br>
            <button type="submit" value="Submit">Submit</button>
        </fieldset>
    </form>
</div>
<script src="registration.js"></script>
</body>
</html>
```

Style.css

```css
body{
    background-color: #fffff2;
}

#form-container{
    margin-left: 5vw;
```

```css
        margin-top: 5vh;
}

form{
        width: 35vw;
}
fieldset{
        border: 5px solid pink;
        margin: 10px;
        border-collapse: collapse;
        padding: 25px;
}
legend{
        text-transform: uppercase;
        color: blueviolet
}

input{
        width: 60%;
        margin-bottom: 15px;
}

button{
        margin-top: 20px;
}
```

Registration.js

```javascript
function form_validation(event){
        event.preventDefault();

        var formData = new FormData(document.getElementById("registration"));
        var data = {};
        formData.forEach(function(value, key){
            data[key] = value;
        }
        );

        var {firstname, lastname, email, mobile, password, address} = data;

        var fname_pattern=/^[A-Za-z]{6,}$/;
        if(!fname_pattern.test(firstname))
        {
```
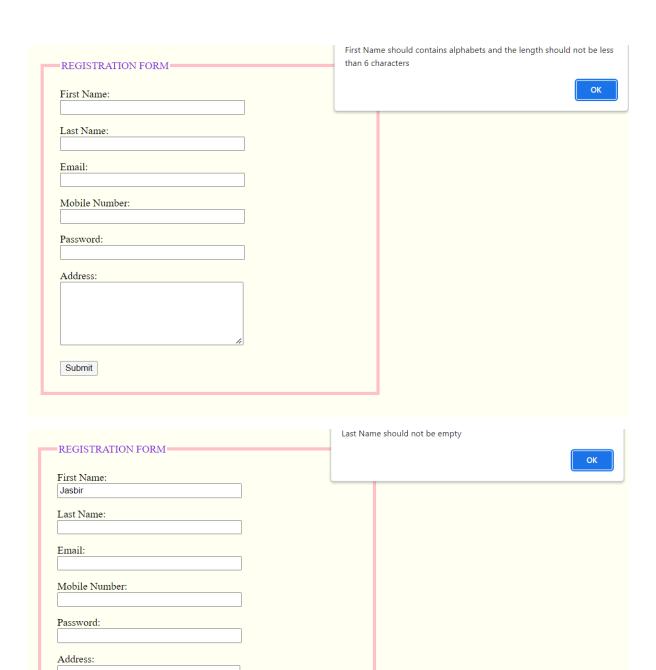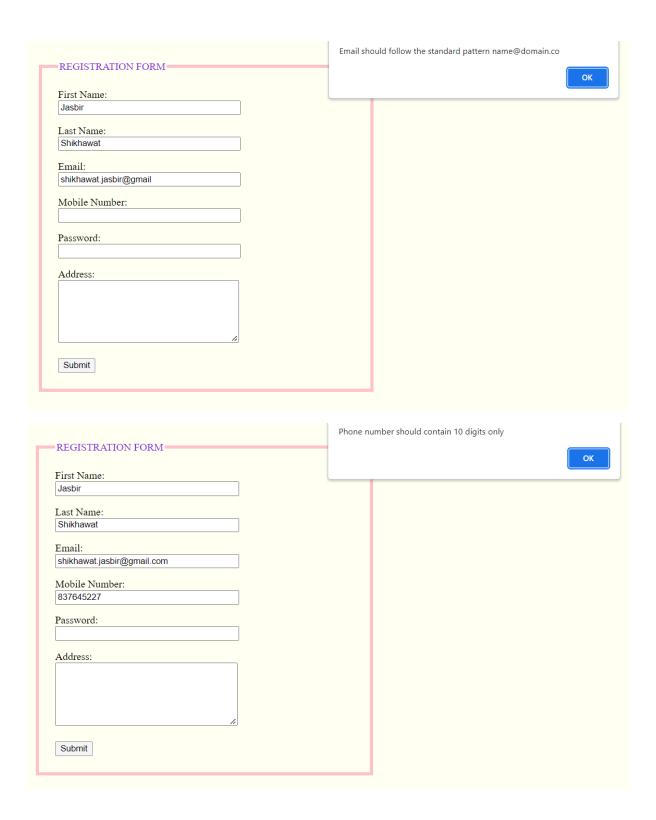
```javascript
        alert("First Name should contains alphabets and the length should not
be less than 6 characters");
        document.registration.firstname.focus();
        return false;
    }

    if(lastname=="")
    {
        alert("Last Name should not be empty");
        document.registration.lastname.focus();
        return false;
    }

    var email_pattern=/^[A-Za-z0-9._]{3,}@[A-Za-z]{3,}[.]{1}[A-Za-z.]{2,6}$/;
    if(!email_pattern.test(email))
    {
        alert("Email should follow the standard pattern name@domain.co");
        document.registration.email.focus();
        return false;
    }


    var mobile_pattern=/^[0-9]{10}$/;
    if(!mobile_pattern.test(mobile))
    {
        alert("Phone number should contain 10 digits only");
        document.registration.mobile.focus();
        return false;
    }

    var password_pattern=/^[A-Za-z0-9@$!%*#?&]{6,}$/;
    if(!password_pattern.test(password))
    {
        alert("Password should not be less than 6 characters length");
        document.registration.password.focus();
        return false;
    }

    if(address=="")
    {
        alert("Address should not be empty");
        document.registration.address.focus();
        return false;
    }

    alert("User registered successfully");
    return true;
}
```

Output

REGISTRATION FORM

First Name:

Last Name:

Email:

Mobile Number:

Password:

Address:

Submit

REGISTRATION FORM

First Name:

Last Name:

Email:

Mobile Number:

Password:

Address:

Submit

First Name should contains alphabets and the length should not be less than 6 characters

OK

REGISTRATION FORM

First Name:

Jasbir

Last Name:

Email:

Mobile Number:

Password:

Address:

Submit

Last Name should not be empty

OK

REGISTRATION FORM

First Name:

Jasbir

Last Name:

Shikhawat

Email:

shikhawat.jasbir@gmail

Mobile Number:

Password:

Address:

Submit

Email should follow the standard pattern name@domain.co

OK

REGISTRATION FORM

First Name:

Jasbir

Last Name:

Shikhawat

Email:

shikhawat.jasbir@gmail.com

Mobile Number:

837645227

Password:

Address:

Submit

Phone number should contain 10 digits only

OK

Password should not be less than 6 characters length

OK

REGISTRATION FORM

First Name:
Jasbir

Last Name:
Shikhawat

Email:
shikhawat.jasbir@gmail.com

Mobile Number:
8376452277

Password:
•••••

Address:

Submit

Address should not be empty

OK

REGISTRATION FORM

First Name:
Jasbir

Last Name:
Shikhawat

Email:
shikhawat.jasbir@gmail.com

Mobile Number:
8376452277

Password:
•••••••••

Address:

Submit

User registered successfully

OK

REGISTRATION FORM

First Name:

Jasbir

Last Name:

Shikhawat

Email:

shikhawat.jasbir@gmail.com

Mobile Number:

8376452277

Password:

••••••••••

Address:

B-5 Paschim Vihar, Delhi

Submit