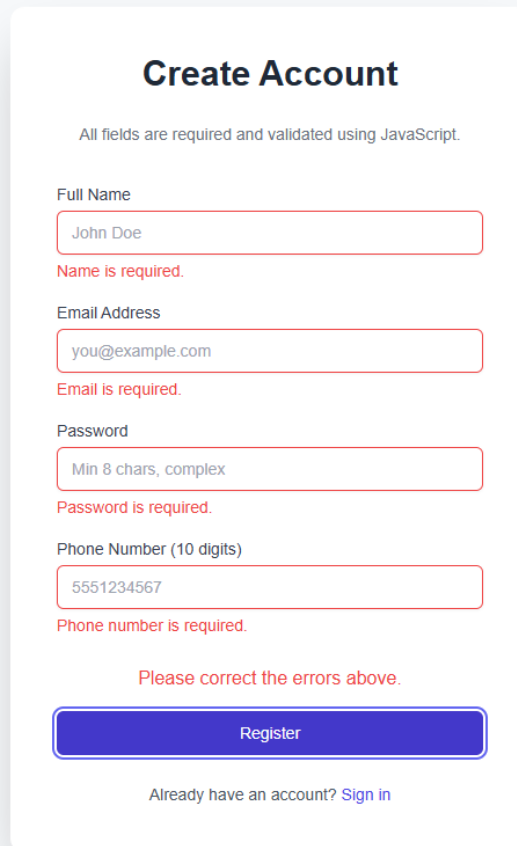


## Validation Using JavaScript: Kindly prepare your Validation code on 2 forms and add code and screen shot of output in given format

### 1. JS Validation: (minimum 5(any 5 logic) screenshot of JS Validation)



**Create Account**

All fields are required and validated using JavaScript.

Full Name  
  
Name is required.

Email Address  
  
Email is required.

Password  
  
Password is required.

Phone Number (10 digits)  
  
Phone number is required.

Please correct the errors above.

[Register](#)

Already have an account? [Sign in](#)

*Fig 1.1 JS Validation: All fields are required*

## Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address

Password

Password must be at least 8 characters long.

Phone Number (10 digits)

Please correct the errors above.

Register

Already have an account? [Sign in](#)

*Fig 1.2 JS Validation: Password Length*

## Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address

Invalid email format.

Password

Phone Number (10 digits)

Please correct the errors above.

Register

Already have an account? [Sign in](#)

*Fig 1.3 JS Validation: Email Pattern*

## Create Account

All fields are required and validated using JavaScript.

Full Name

prince kumar

Email Address

prince.kumar@gmail.com

Password

\*\*\*\*\*

Password must contain: 1 uppercase, 1 lowercase, 1 digit,  
and 1 special character (@!%\*?&).

Phone Number (10 digits)

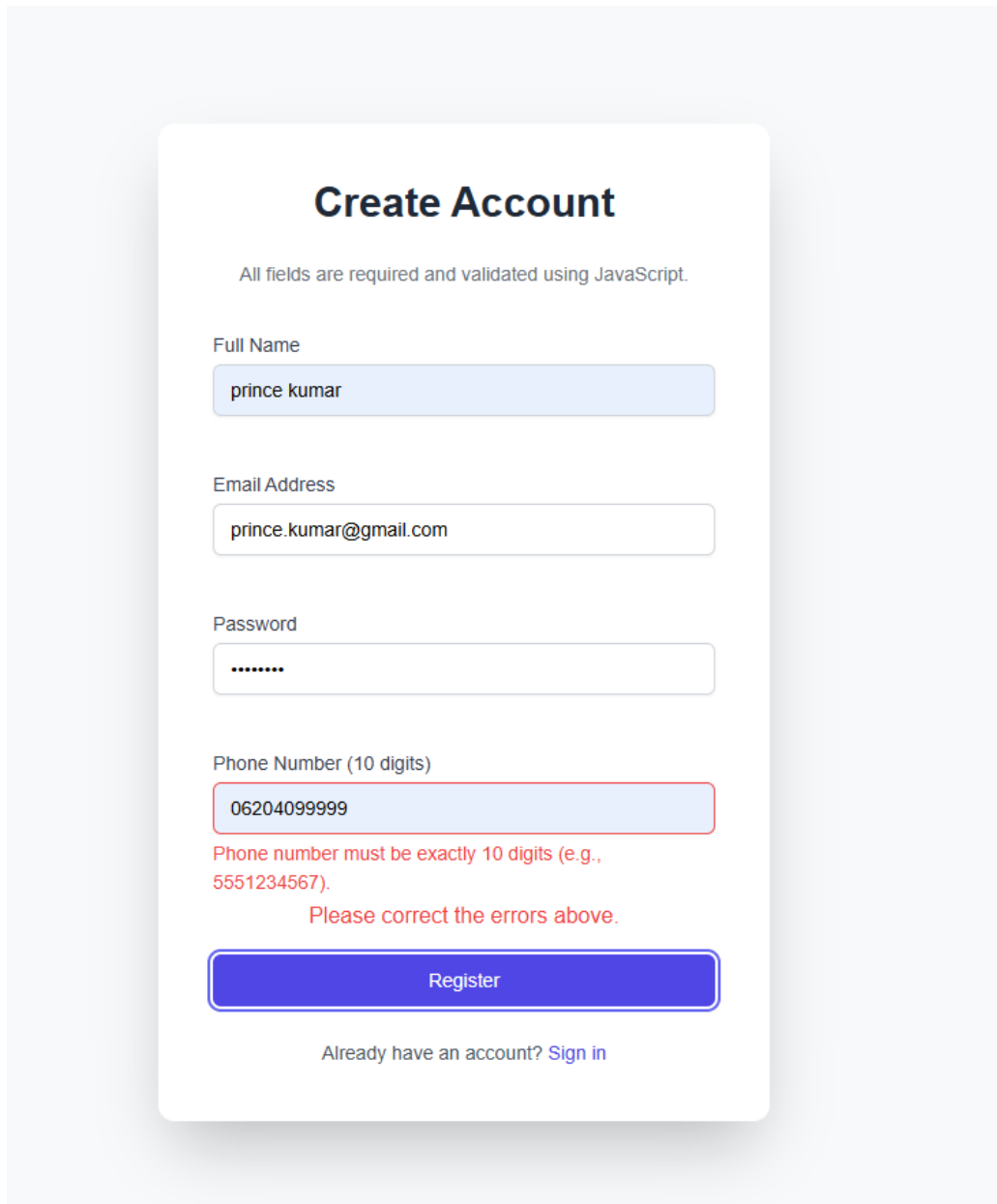
6204099999

Please correct the errors above.

Register

Already have an account? [Sign in](#)

*Fig 1.4 JS Validation: Password Pattern*



**Create Account**

All fields are required and validated using JavaScript.

Full Name

Email Address

Password

Phone Number (10 digits)

Phone number must be exactly 10 digits (e.g., 5551234567).

Please correct the errors above.

[Register](#)

Already have an account? [Sign in](#)

*Fig 1.5 JS Validation: Phone number pattern*

**Form1&2 code:**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>User Registration with JavaScript Validation</title>
<script src="https://cdn.tailwindcss.com"></script>
<style>
  body {
    font-family: 'Inter', sans-serif;
    background-color: #f7f9fb;
  }
  .error-message {
    color: #ef4444;
    font-size: 0.875rem;
    margin-top: 0.25rem;
    height: 1.25rem;
  }
</style>
<script>
  function clearErrors() {
    document.querySelectorAll('.error-message').forEach(el => {
      el.textContent = "";
    });
    document.querySelectorAll('input').forEach(input => {
      input.classList.remove('border-red-500');
    });
  }

  function validateForm(event) {
    event.preventDefault();

    clearErrors();
    let isValid = true;

    const name = document.getElementById('name').value.trim();
    const email = document.getElementById('email').value.trim();
    const password = document.getElementById('password').value;
    const phone = document.getElementById('phone').value.trim();

    function showError(fieldId, message) {
      document.getElementById(fieldId + '-error').textContent = message;
      document.getElementById(fieldId).classList.add('border-red-500');
      isValid = false;
    }
  }
</script>
```

```
if (name === "") {
    showError('name', 'Name is required.');
```

```
}
if (email === "") {
    showError('email', 'Email is required.');
```

```
}
if (password === "") {
    showError('password', 'Password is required.');
```

```
}
if (phone === "") {
    showError('phone', 'Phone number is required.');
```

```
}

const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (email !== "" && !emailPattern.test(email)) {
    showError('email', 'Invalid email format.');
```

```
}

const minLength = 8;
const passwordPattern = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-
z\d@$!%*?&]{8}$/;

if (password !== "" && password.length < minLength) {
    showError('password', 'Password must be at least ${minLength} characters
long.);
} else if (password !== "" && !passwordPattern.test(password)) {
    showError('password', 'Password must contain: 1 uppercase, 1 lowercase, 1
digit, and 1 special character (@$!%*?&).');
```

```
}

const phonePattern = /^\d{10}$/;
if (phone !== "" && !phonePattern.test(phone)) {
    showError('phone', 'Phone number must be exactly 10 digits (e.g.,
5551234567).');
```

```
}

if (isValid) {
    document.getElementById('form-message').textContent = 'Registration
successful! Form data is valid.';
    document.getElementById('form-message').classList.remove('text-red-500');
    document.getElementById('form-message').classList.add('text-green-600');
```

```
        console.log('Form is valid and ready to submit.');
```

```
        document.getElementById('password').value = "";
```

```
    } else {
```

```
        document.getElementById('form-message').textContent = 'Please correct the
```

```
errors above.';
```

```
        document.getElementById('form-message').classList.remove('text-green-
```

```
600');
```

```
        document.getElementById('form-message').classList.add('text-red-500');
```

```
    }
```

```
    return isValid;
```

```
}
```

```
window.onload = () => {
```

```
    const form = document.getElementById('registration-form');
```

```
    if (form) {
```

```
        form.addEventListener('submit', validateForm);
```

```
    }
```

```
};
```

```
</script>
```

```
</head>
```

```
<body class="min-h-screen flex items-center justify-center p-4">
```

```
    <div class="w-full max-w-md bg-white p-8 md:p-10 rounded-xl shadow-2xl">
```

```
        <h1 class="text-3xl font-bold text-gray-800 text-center mb-6">Create
```

```
Account</h1>
```

```
        <p class="text-center text-sm text-gray-500 mb-8">All fields are required and
```

```
validated using JavaScript.</p>
```

```
        <form id="registration-form" onsubmit="validateForm(event)" novalidate>
```

```
            <div class="mb-4">
```

```
                <label for="name" class="block text-sm font-medium text-gray-700">Full
```

```
Name</label>
```

```
                <input type="text" id="name" name="name" placeholder="John Doe"
```

```
                    class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
```

```
shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
```

```
sm:text-sm">
```

```
                <p id="name-error" class="error-message"></p>
```

```
            </div>
```



```
<div class="mb-4">
  <label for="email" class="block text-sm font-medium text-gray-700">Email
Address</label>
  <input type="email" id="email" name="email"
placeholder="you@example.com"
class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
sm:text-sm">
  <p id="email-error" class="error-message"></p>
</div>

<div class="mb-4">
  <label for="password" class="block text-sm font-medium text-gray-
700">Password</label>
  <input type="password" id="password" name="password" placeholder="Min
8 chars, complex"
class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
sm:text-sm">
  <p id="password-error" class="error-message">
    <span class="text-xs text-gray-400">Hint: Must include A-Z, a-z, 0-9, and a
special character.</span>
  </p>
</div>

<div class="mb-6">
  <label for="phone" class="block text-sm font-medium text-gray-700">Phone
Number (10 digits)</label>
  <input type="tel" id="phone" name="phone" placeholder="5551234567"
class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
sm:text-sm">
  <p id="phone-error" class="error-message"></p>
</div>

<p id="form-message" class="text-center font-medium mb-4 h-6"></p>

<button type="submit"
class="w-full flex justify-center py-2 px-4 border border-transparent
rounded-md shadow-sm text-sm font-medium text-white bg-indigo-600 hover:bg-
indigo-700 focus:outline-none focus:ring-2 focus:ring-offset-2 focus:ring-indigo-500
```



transition duration-150 ease-in-out">

Register

</button>

</form>

<p class="mt-6 text-center text-sm text-gray-600">

Already have an account?

<a href="#" class="font-medium text-indigo-600 hover:text-indigo-500">Sign

in</a>

</p>

</div>

</body>

</html>