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one.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Factorial Calculator</title>
  <link rel="stylesheet" type="text/css" href="one.css">
</head>
<body>
  <h1>Factorial Calculator</h1>
  <input type="text" id="numberInput" placeholder="Enter a number">
  <button onclick="calculateFactorial()">Calculate Factorial</button>
  <p id="niet"></p>

  <script src="one.js"></script>
</body>
</html>
```

one.css

```
body {
  font-family: Arial, sans-serif;
  margin: 20px;
}

h1 {
  text-align: center;
}

input[type="text"] {
  width: 200px;
  padding: 10px;
  margin-right: 10px;
}

button {
  padding: 10px 20px;
}

#niet {
  margin-top: 20px;
  font-weight: bold;
}
```

one.js

```
function calculateFactorial() {  
    var numberInput = document.getElementById("numberInput");  
    var number = parseInt(numberInput.value);  
    var factorial = 1;  
  
    if (isNaN(number) || number < 0) {  
        alert("Please enter a valid positive integer.");  
        return;  
    }  
  
    for (var i = 2; i <= number; i++) {  
        factorial *= i;  
    }  
  
    var resultElement = document.getElementById("niet");  
    resultElement.textContent = "The factorial of " + number + " is " + factorial +  
    ".";  
}
```

# Factorial Calculator

6

Calculate Factorial

The factorial of 6 is 720.

two.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Login</title>
  <link rel="stylesheet" type="text/css" href="two.css">
</head>
<body>
  <h1>Login</h1>
  <form id="loginForm">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required><br>

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

    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
  </form>

  <div id="message"></div>

  <script src="two.js"></script>
</body>
</html>
```

two.css

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

h1 {
  text-align: center;
  margin-bottom: 20px;
}

form {
  width: 300px;
  padding: 20px;
  border: 1px solid #ccc;
```

```

        border-radius: 5px;
    }

    label {
        display: block;
        margin-bottom: 5px;
    }

    input[type="text"],
    input[type="password"] {
        width: 100%;
        padding: 10px;
        margin-bottom: 10px;
    }

    input[type="submit"],
    input[type="reset"] {
        padding: 10px 20px;
        margin-right: 10px;
    }

    #message {
        margin-top: 20px;
        text-align: center;
        color: red;
    }

```

two.js

```

var users = [
    { username: "user1", password: "pass1" },
    { username: "user2", password: "pass2" },
    { username: "user3", password: "pass3" }
];

var form = document.getElementById("loginForm");
form.addEventListener("submit", function(event) {
    event.preventDefault(); // Prevent form submission
    var username = document.getElementById("username").value;
    var password = document.getElementById("password").value;
    var isValid = users.some(function(user) {
        return user.username === username && user.password === password;
    });
    var messageElement = document.getElementById("message");
    if (isValid) {
        messageElement.textContent = "Login successful!";
    } else {
        messageElement.textContent = "Invalid username or password.";
    }
});

```

```
}); }
```

Login

Username:

user1

Password:

....

Submit

Reset

Login successful!



three.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Registration</title>
    <link rel="stylesheet" type="text/css" href="three.css" />
  </head>
  <body>
    <h1>Registration</h1>
    <form id="registrationForm">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required /><br />

      <label for="dateOfJoining">Date of Joining:</label>
      <input
        type="text"
        id="dateOfJoining"
        name="dateOfJoining"
        required
      /><br />

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

      <label for="phoneNumber">Phone Number:</label>
      <input type="text" id="phoneNumber" name="phoneNumber" required /><br />

      <label for="address">Address:</label>
      <textarea id="address" name="address" required></textarea><br />

      <label for="pinCode">Pin Code:</label>
      <input type="text" id="pinCode" name="pinCode" required /><br />

      <label for="gender">Gender:</label>
      <input type="radio" id="male" name="gender" value="male" required />
      <label for="male">Male</label>
      <input type="radio" id="female" name="gender" value="female" />
      <label for="female">Female</label>
      <input type="radio" id="other" name="gender" value="other" />
      <label for="other">Other</label><br />

      <label for="state">State:</label>
      <select id="state" name="state" required>
        <option value="">Select State</option>
        <option value="Andhra Pradesh">Andhra Pradesh</option>
        <option value="Arunachal Pradesh">Arunachal Pradesh</option>
        <option value="Assam">Assam</option>
        <option value="Bihar">Bihar</option>
        <option value="Chhattisgarh">Chhattisgarh</option>
      </select>
    </form>
  </body>
</html>
```

```

        <option value="Goa">Goa</option>
        <option value="Gujarat">Gujarat</option>
        <option value="Haryana">Haryana</option>
        <option value="Himachal Pradesh">Himachal Pradesh</option>
        <option value="Jharkhand">Jharkhand</option>
        <option value="Karnataka">Karnataka</option>
        <option value="Kerala">Kerala</option>
        <option value="Madhya Pradesh">Madhya Pradesh</option>
        <option value="Maharashtra">Maharashtra</option>
        <option value="Manipur">Manipur</option>
        <option value="Meghalaya">Meghalaya</option>
        <option value="Mizoram">Mizoram</option>
        <option value="Nagaland">Nagaland</option>
        <option value="Odisha">Odisha</option>
        <option value="Punjab">Punjab</option>
        <option value="Rajasthan">Rajasthan</option>
        <option value="Sikkim">Sikkim</option>
        <option value="Tamil Nadu">Tamil Nadu</option>
        <option value="Telangana">Telangana</option>
        <option value="Tripura">Tripura</option>
        <option value="Uttar Pradesh">Uttar Pradesh</option>
        <option value="Uttarakhand">Uttarakhand</option>
        <option value="West Bengal">West Bengal</option></select>
    <br />

    <input type="submit" value="Submit" />
    <input type="reset" value="Reset" />
</form>

<script src="three.js"></script>
</body>
</html>

```

three.css

```

body {
    font-family: Arial, sans-serif;
    margin: 20px;
}

h1 {
    text-align: center;
}

form {
    width: 400px;
    margin: 0 auto;
}

```

```

}

label {
    display: block;
    margin-bottom: 5px;
}

input[type="text"],
textarea,
select {
    width: 100%;
    padding: 5px;
    margin-bottom: 10px;
}

input[type="submit"],
input[type="reset"] {
    margin-top: 10px;
}

```

three.js

```

document.getElementById("registrationForm").addEventListener("submit",
function(event) {
    event.preventDefault();

    var name = document.getElementById("name").value;
    var dateOfJoining = document.getElementById("dateOfJoining").value;
    var email = document.getElementById("email").value;
    var phoneNumber = document.getElementById("phoneNumber").value;
    var address = document.getElementById("address").value;
    var pinCode = document.getElementById("pinCode").value;

    var nameRegex = /^[A-Za-z ]+$/;
    var dateOfJoiningRegex =
/^(19|20)\d\d-(0[1-9]|1[012])-(0[1-9]|[12][0-9]|3[01])$/;
    var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    var phoneNumberRegex = /^\d{10}$/;
    var pinCodeRegex = /^\d{6}$/;

    var errorMessages = [];

    if (!nameRegex.test(name)) {
        errorMessages.push("Invalid name. Name should only contain alphabets and
spaces.");
    }

    if (!dateOfJoiningRegex.test(dateOfJoining)) {

```

```
        errorMessages.push("Invalid date of joining. Date should be in YYYY-MM-DD
format.");
    }

    if (!emailRegex.test(email)) {
        errorMessages.push("Invalid email address.");
    }

    if (!phoneNumberRegex.test(phoneNumber)) {
        errorMessages.push("Invalid phone number. Phone number should be 10
digits.");
    }

    if (address.trim() === "") {
        errorMessages.push("Address cannot be empty.");
    }

    if (!pinCodeRegex.test(pinCode)) {
        errorMessages.push("Invalid pin code. Pin code should be 6 digits.");
    }

    if (errorMessages.length > 0) {
        var errorMessage = errorMessages.join("\n");
        alert(errorMessage);
    } else {
        alert("Registration successful!");
    }
});
```

# Registration


Name:

Date of Joining:

Email ID:

Phone Number:

Address:



Pin Code:

Gender:

☐

Male

☐

Female

☐

Other

State:

Select State

▼

Submit

Reset

# Multiplication Table Generator

69

Generate Table

69 x 1 = 69  
69 x 2 = 138  
69 x 3 = 207  
69 x 4 = 276  
69 x 5 = 345  
69 x 6 = 414  
69 x 7 = 483  
69 x 8 = 552  
69 x 9 = 621  
69 x 10 = 690

four.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Multiplication Table Generator</title>
  <link rel="stylesheet" type="text/css" href="four.css">
</head>
<body>
  <h1>Multiplication Table Generator</h1>
  <input type="text" id="numberInput" placeholder="Enter a number">
  <button onclick="generateTable()">Generate Table</button>
  <textarea id="tableArea" readonly></textarea>

  <script src="four.js"></script>
</body>
</html>
```

four.css

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 20px;
  display: flex;
  flex-direction: column;
  align-items: center;
}

h1 {
  margin-bottom: 20px;
}

input[type="text"] {
  width: 200px;
  padding: 10px;
  margin-bottom: 10px;
}

button {
  padding: 10px 20px;
}

#tableArea {
  width: 400px;
  height: 300px;
  margin-top: 20px;
  padding: 10px;
}
```

```
    resize: none;
}
```

four.js

```
function generateTable() {
    var numberInput = document.getElementById("numberInput");
    var number = parseInt(numberInput.value);
    var tableArea = document.getElementById("tableArea");

    if (isNaN(number) || number <= 0) {
        tableArea.value = "Please enter a valid positive number.";
        return;
    }

    var table = "";

    for (var i = 1; i <= 10; i++) {
        table += number + " x " + i + " = " + (number * i) + "\n";
    }

    tableArea.value = table;
}
```