### ****Factorial Calculator App****

## ****1. Overview****

The **Factorial Calculator App** is a web application that calculates the factorial of a user-entered positive integer. Users can choose between two calculation methods: **Iterative** or **Recursive**. It provides real-time results and ensures a simple, responsive, and user-friendly experience.

## ****2. Features****

* **Input Validation:** Ensures only valid positive integers are accepted.
* **Two Calculation Methods:**
  + **Iterative:** Uses a loop to calculate the factorial.
  + **Recursive:** Uses a recursive function to calculate the factorial.
* **Error Messages:** Alerts users when invalid input is detected.
* **Responsive Design:** Works seamlessly on all devices (desktops, tablets, and mobiles).

## ****3. Setup****

### ****3.1 Prerequisites****

* A browser (Chrome, Firefox, Edge, etc.) is required to run the app locally.

### ****3.2 File Structure****

Organize the files as follows:

factorial-calculator/

├── web.html (Main HTML file)

├── dsg.css (CSS file for styling)

├── fact.js (JavaScript file for functionality)

### ****3.3 Steps to Run****

**Download the Files:**

* + Save the provided index.html, styles.css, and script.js in the same folder.

**Open the App:**

* + Open the index.html file in your browser by double-clicking it.

**Start Using the App:**

* + Enter a positive integer in the input field.
  + Choose a calculation method (Iterative or Recursive).
  + Click the "Calculate" button to see the result.

## ****How to Use the App****

**Access the Calculator:**

* + Open the app in your browser.

**Enter a Number:**

* + Type a positive integer in the input box.

**Select a Method:**

* + Choose either **Iterative** or **Recursive** by selecting the corresponding radio button.

**Calculate:**

* + Click the "Calculate" button.

**View the Result:**

* + The app will display the factorial of the number along with the method used.

**Error Handling:**

* + If you enter invalid input (e.g., a negative number or no input), an error message will be displayed.

## ****5. Technology Stack****

* **HTML:** For page structure.
* **CSS:** For styling and responsiveness.
* **JavaScript:** For factorial calculation logic and user interaction.

## ****6. Example Usage****

* **Input:** 5
* **Selected Method:** Recursive
* **Output:**

Factorial of 5 (Recursive method): 120

1. **Sample Images**

