Assignment-5 :DOM

1.Color Changer using JavaScript

Create a web page where users can click on buttons labeled with different color names, and the background color of a `<div>` changes accordingly.

Instructions:

1. **Create an HTML file that includes a `<div>` and buttons for different colors.**
2. **Style the buttons to visually match their respective colors.**
3. **handle click events to change the `<div>` color using buttons.**

Bonus Challenges:

- Add a reset button to restore the default background color.

2.Random Color Generator

Create a web page where users can generate random colors by clicking a button. The page should display the new color and its corresponding HEX code.

3.Alternate Color Change for H1 Tags

Create a webpage where **six `<h1>` tags** change colors alternately when a button is clicked.

Instructions:

1. **Create an HTML file** with six `<h1>` tags and a button.
2. **Use JavaScript** to change the colors of the `<h1>` tags alternately (e.g., first, third, and fifth in one color, second, fourth, and sixth in another).

Bonus Challenges:

- Add more color variations instead of just two.

4.Apply Animation to a `<div>` on Button Click

Objective:

Create a web page where clicking a button triggers an animation effect on a `<div>`.

Instructions:

1. **Create an HTML file** with a `<div>` and a button.
2. **Use CSS animations or JavaScript** to apply an effect when the button is clicked.

Bonus Challenges:

- Add multiple animation effects (e.g., scale, shake, flip).
- Allow users to choose from different animations.