Assignment 12:

Title: Designing website Page using basic elements of HTML, CSS and JavaScript.

Objective: To understand and implement the basic concepts of HTML for structure, CSS for styling, and JavaScript for interactivity in web page design.

Tasks: Create a mini webpage that displays current date and time using JavaScript and updates every second.

Software Required:

3. Notepad (or any text editor)
4. Any web browser (Google Chrome / Edge / Firefox)

Procedure:

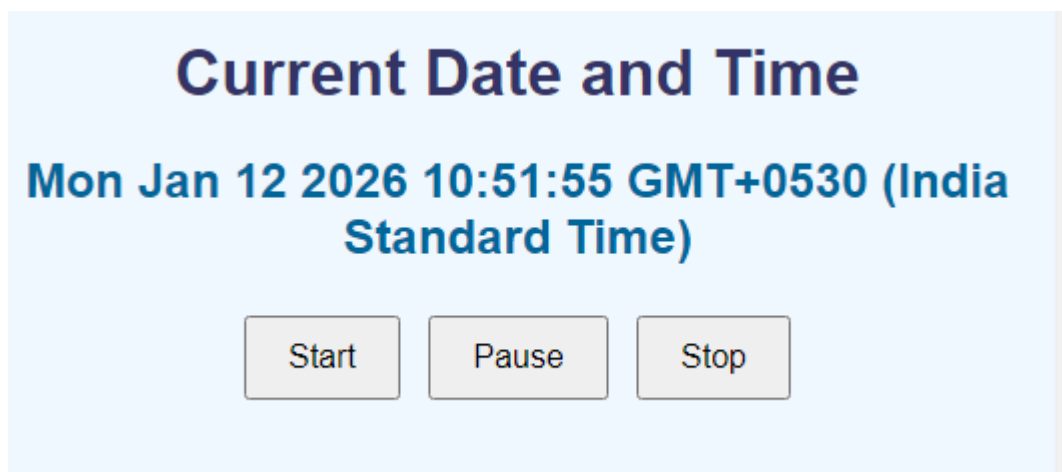Step 1: Open Notepad (or any text editor).

Step 2: Create a new file.

Step 3: Save the file as

- File Name: assignment12.html
- Save as type: All Files
- Encoding: UTF-8
- Location: Desktop or your project folder

Step 4: Type the HTML program using HTML, CSS and JavaScript.

Expected Output

Current Date and Time

Mon Jan 12 2026 10:51:55 GMT+0530 (India Standard Time)

[Start] [Pause] [Stop]

Step 5: Run assignment12.html in any web browser

assignment12.html

```html
<!--

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    updates every second with Start, Pause, and Stop controls.

-->

<!DOCTYPE html>

<html>

<head>

    <title>Current Date and Time</title>

    <!-- CSS Styling -->

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f0f8ff;

            text-align: center;

            margin-top: 100px;

        }

        h1 {

            color: #333366;

        }

        #datetime {

            font-size: 24px;

            color: #006699;

            margin: 20px 0;

            font-weight: bold;

        }
```

```css
        button {

            padding: 10px 20px;

            margin: 5px;

            font-size: 16px;

            cursor: pointer;

        }

</style>
```

```html
<!-- JavaScript Code -->

<script>
```

```javascript
    var timer = null;

    function showDateTime() {

        var now = new Date();

        document.getElementById("datetime").innerHTML = now;

    }

    function startTime() {

        if (timer === null) {

            showDateTime();

            timer = setInterval(showDateTime, 1000);

        }

    }

    function pauseTime() {

        clearInterval(timer);

        timer = null;

    }

    function stopTime() {

        clearInterval(timer);

        timer = null;

        document.getElementById("datetime").innerHTML = "";

    }
```

```
        </script>

</head>

<body>

    <h1>Current Date and Time</h1>

    <div id="datetime"></div>

    <button onclick="startTime()">Start</button>

    <button onclick="pauseTime()">Pause</button>

    <button onclick="stopTime()">Stop</button>

</body>

</html>
```

Conclusion:

This assignment helped to understand the basic use of HTML, CSS, and JavaScript to create a simple and interactive webpage that displays the current date and time.