

## **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).

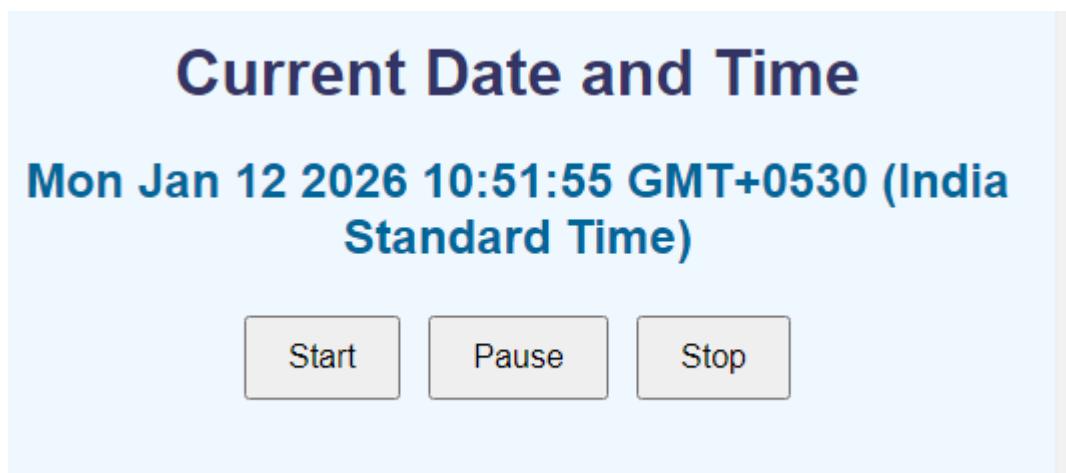
Step 2: Create a new file.

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*



Step 5: Run assignment12.html in any web browser

## assignment12.html

<!--

Assignment 12: Designing website 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.

Task: Create a mini webpage that displays current date and time using JavaScript and 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;
        }
    </style>
</head>
<body>
    <h1>Current Date and Time</h1>
    <div id="datetime"></div>
    <script>
        let datetime = document.getElementById("datetime");
        let startButton = document.createElement("button");
        startButton.textContent = "Start";
        let pauseButton = document.createElement("button");
        pauseButton.textContent = "Pause";
        let stopButton = document.createElement("button");
        stopButton.textContent = "Stop";
        let intervalId;
        let isPaused = true;

        startButton.addEventListener("click", () => {
            if (isPaused) {
                start();
            } else {
                pause();
            }
        });

        pauseButton.addEventListener("click", () => {
            pause();
        });

        stopButton.addEventListener("click", () => {
            stop();
        });

        function start() {
            if (!intervalId) {
                intervalId = setInterval(() => {
                    const date = new Date();
                    const options = { year: "numeric", month: "long", day: "numeric", hour: "2-digit", minute: "2-digit", second: "2-digit" };
                    const formattedDate = date.toLocaleString("en-US", options);
                    datetime.textContent = formattedDate;
                }, 1000);
            }
        }

        function pause() {
            clearInterval(intervalId);
            isPaused = true;
        }

        function stop() {
            clearInterval(intervalId);
            isPaused = false;
        }
    </script>
</body>
</html>
```

```
button {
    padding: 10px 20px;
    margin: 5px;
    font-size: 16px;
    cursor: pointer;
}

</style>

<!-- JavaScript Code -->

<script>

var timer = null;

function showDateTime() {
    var now = new Date();
    document.getElementById("datetimetime").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("datetimetime").innerHTML = "";
}

</script>
```

```
</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.