Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript							
ACADEMIC YEAR: 2024-25							
CLASS	: BE	DIV	: 6	Batch	: P6	DATE	: / /24
Roll No	42130	ABC ID	:			SEMESTER	: I

Experiment No.:

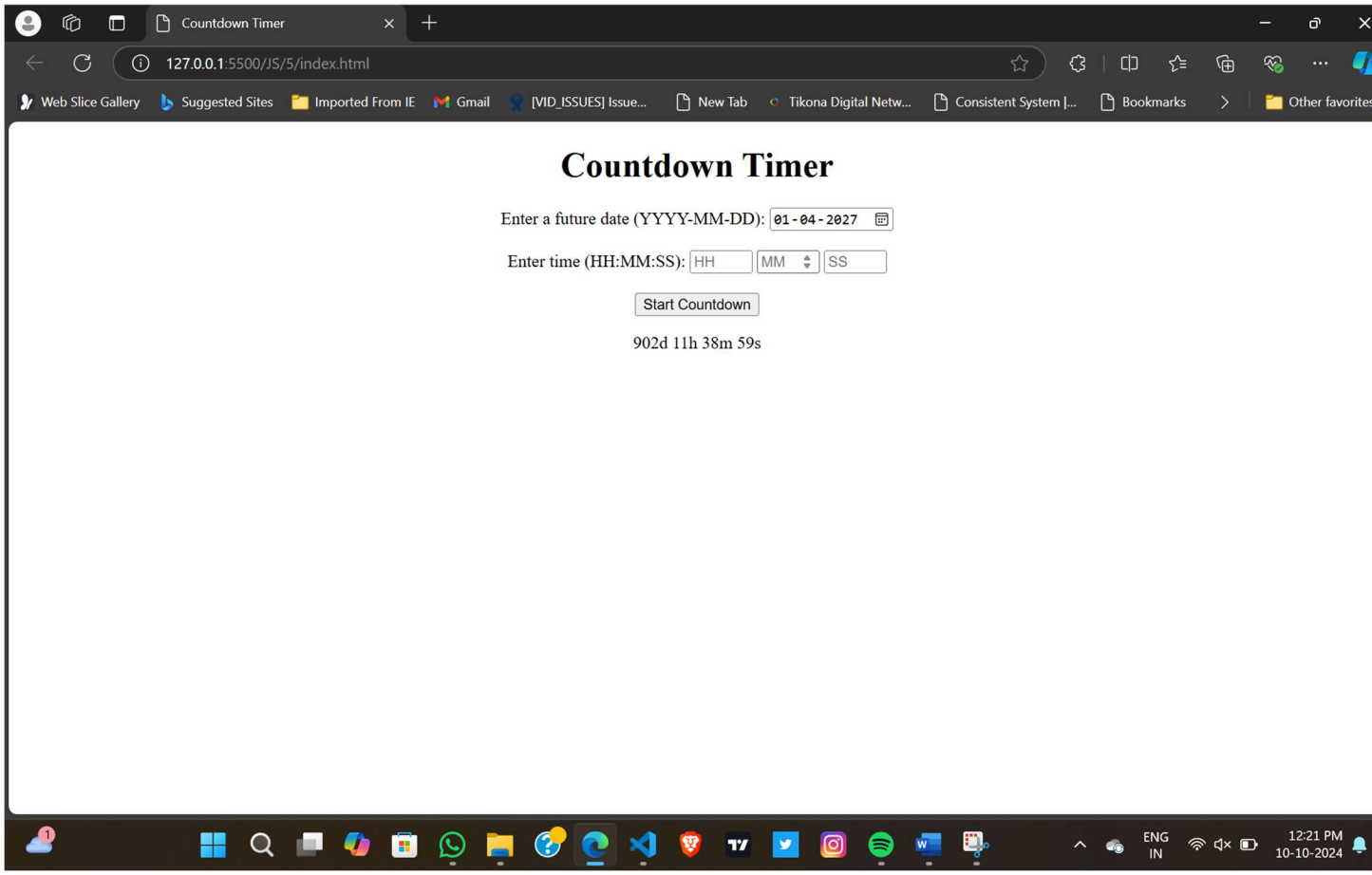
Code:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Countdown Timer</title>
  <link rel="stylesheet" href="style.css">
</head>

<body style="text-align: center">
  <h1>Countdown Timer</h1>

  <label for="dateInput">Enter a future date (YYYY-MM-DD):</label>
  <input type="date" id="dateInput"><br><br>

  <label for="timeInput">Enter time (HH:MM:SS):</label>
  <input type="number" id="hours" min="0" max="23" placeholder="HH" style="width: 50px;">
  <input type="number" id="minutes" min="0" max="59" placeholder="MM" style="width: 50px;">
  <input type="number" id="seconds" min="0" max="59" placeholder="SS" style="width: 50px;"><br><br>

  <button onclick="startCountdown()">Start Countdown</button>

  <div id="countdown">
    <p id="message"></p>
    <p id="timeRemaining"></p>
  </div>

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

</html>
```

```
function startCountdown() {
    const dateInput = document.getElementById('dateInput').value;
    const hours = document.getElementById('hours').value || 0;
    const minutes = document.getElementById('minutes').value || 0;
```

```
    const seconds = document.getElementById('seconds').value || 0;
    const countdownElement = document.getElementById('timeRemaining');
    const messageElement = document.getElementById('message');

    clearInterval(countdownElement.countdownInterval);
    countdownElement.textContent = '';

    const targetDate = new Date(dateInput);
    targetDate.setHours(hours);
    targetDate.setMinutes(minutes);
    targetDate.setSeconds(seconds);

    if (!dateInput || targetDate.getTime() <= Date.now()) {
        messageElement.textContent = 'Please enter a valid future date and time.';
        countdownElement.textContent = '';
        return;
    }

    messageElement.textContent = '';

    countdownElement.countdownInterval = setInterval(() => {
        const now = new Date().getTime();
        const distance = targetDate.getTime() - now;

        if (distance <= 0) {
            clearInterval(countdownElement.countdownInterval);
            countdownElement.textContent = 'Countdown finished!';
            return;
        }

        const days = Math.floor(distance / (1000 * 60 * 60 * 24));
        const hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
        const minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
        const seconds = Math.floor((distance % (1000 * 60)) / 1000);

        countdownElement.textContent = `${days}d ${hours}h ${minutes}m ${seconds}s`;
    }, 1000);
}
```

Output:



Date: Course Teacher Sign