ENVIRONMENTAL MONITORING USING IOT

PHASE 4

REAL TIME DATA DISPLAY IN WEB PAGE

AIM

To create a platform that displays real-time environmental data using web develop technologies

SOFTWARE USED

- Notepad++
- LANGUAGES USED
- HTML
- CSS
- JavaScript

BROWSER FOR DISPLAY

- Microsoft Edge

CODES

HTML CODE

```
<!DOCTYPE html>
<html>
<head>
   <title>ENVIRONMENTAL MONITORING USING IOT</title>
        <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
   <h1>REAL TIME ENVIRONMENTAL DATA DISPLAY</h1>
   <div id="data-display">
      <p>Loading IoT data...</p>
   </div>
   <script src="java.js"></script>
</body>
</html>
```

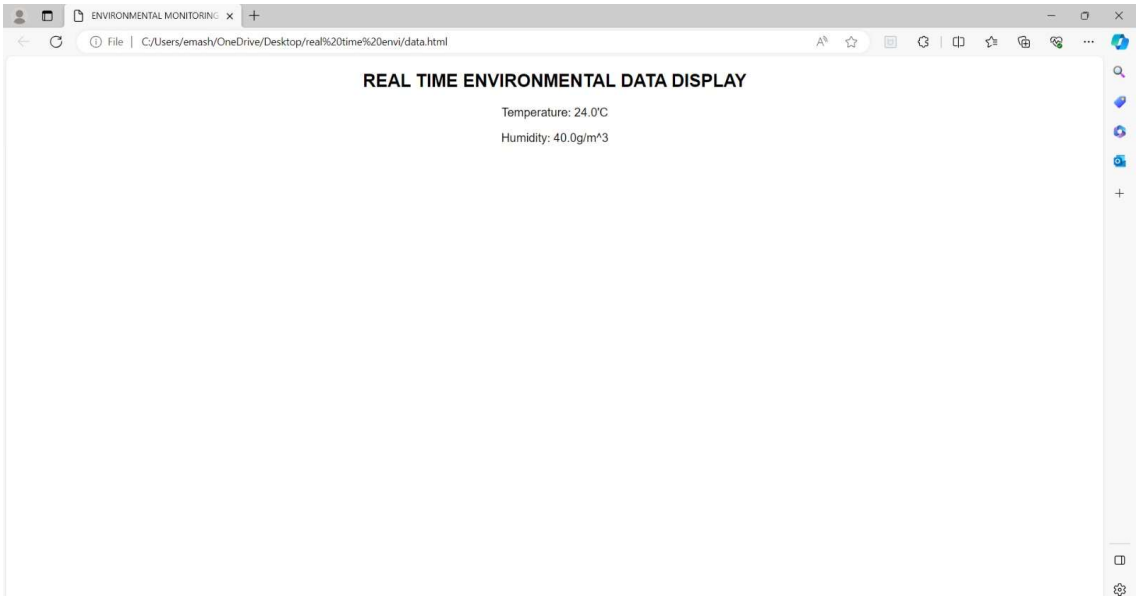
CSS CODE

```
body {
    font-family: Arial, sans-serif;
    text-align: center;
    margin: 20px;
}

h1 {
    font-size: 24px;
    margin-bottom: 20px;
}

.data-container {
    display: inline-block;
    margin: 10px;
}

.data-label {
    font-weight: bold;
    margin-bottom: 5px;
}

.data-value {
    font-size: 18px;
}
```

JAVASCRIPT CODE

```
const channelID = '2306875';
   const apiUrl =
`https://api.thingspeak.com/channels/${channelID}/feeds.json?results=1`;


   fetch(apiUrl)
      .then((response) => response.json())
      .then((data) => {
         if (data.feeds.length > 0) {
            const lastEntry = data.feeds[0];
            const field1Data = lastEntry.field1;
            const field2Data = lastEntry.field2;
            dataDisplay.innerHTML = `
               <p>Temperature: ${field1Data}'C</p>
               <p>Humidity: ${field2Data}g/m^3</p>
            `;
         } else {
            dataDisplay.innerHTML = '<p>No data available.</p>';
         }
      })
      .catch((error) => {
         console.error('Error fetching data from ThingSpeak:', error);
         dataDisplay.innerHTML = '<p>Error fetching ThingSpeak data.</p>';
      });
}
// Fetch ThingSpeak data initially
fetchThingSpeakData();
// Fetch ThingSpeak data periodically (e.g., every 30 seconds)
setInterval(fetchThingSpeakData, 30000); // 30,000 milliseconds = 30 seconds
```

WEB DISPLAY



THANK YOU