Day 8
Name : Siddarth
Date : 05/08/2024
JavaScript
1. Append an Object to a Const Array
Code and Output:

```javascript
const myArray = [{name: "Sidd"}, {name: "Prathik"}];
const newObject = {name: "Sanjit"};

myArray.push(newObject);

console.log(myArray);
```

```
▼ (3) [{…}, {…}, {…}] ⓘ
  ▶ 0: {name: 'Sidd'}
  ▶ 1: {name: 'Prathik'}
  ▶ 2: {name: 'Sanjit'}
    length: 3
  ▶ [[Prototype]]: Array(0)
```

2. Insert, Remove Element at the End of Array and Add Element at the Front
Insert an element at the end of an array:
Code and Output:

```javascript
> let array = ["Sidd", "Prathik", "Sanjit", "Vishnu"];

  // Insert element at the end
  array.push("Kumar");
  console.log(array);

  ▶ (5) ['Sidd', 'Prathik', 'Sanjit', 'Vishnu', 'Kumar']
```

Remove an element from the end of an array:
Code and Output:

```javascript
> let array = ["Sidd", "Prathik", "Sanjit", "Vishnu"];
  array.pop();
  console.log(array);

  ▶ (3) ['Sidd', 'Prathik', 'Sanjit']
```

Add an element at the front of an array:
Code and Output:

```
> let array = ["Sidd", "Prathik", "Sanjit", "Vishnu"];
  array.unshift("Arjun");
  console.log(array);

  ▶ (5) ['Arjun', 'Sidd', 'Prathik', 'Sanjit', 'Vishnu']
```

3. Reverse a String
Code and Output:

```
function reverseString(str) {
  return str.split("").reverse().join("");
}

let myString = "Siddarth";
console.log(reverseString(myString));

htraddiS

undefined
```

4. Display Updated Date with Interval of 2 ms in HTML Page
```
<!DOCTYPE html>
<html>
<head>
  <title>Update Date Every 2ms</title>
</head>
<body>
  <p id="dateDisplay"></p>

  <script>
    function updateDate() {
      const dateDisplay = document.getElementById('dateDisplay');
      const now = new Date();
      dateDisplay.innerHTML = now;
    }

    setInterval(updateDate, 2);
  </script>
</body>
</html>
```
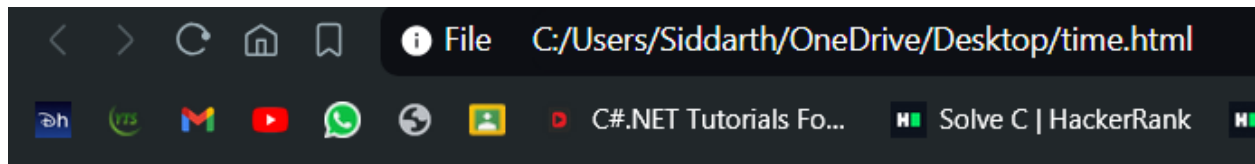
Output:

Mon Aug 05 2024 21:28:42 GMT+0530 (India Standard Time)