

8 – DAY – TASK (05-07-2024)

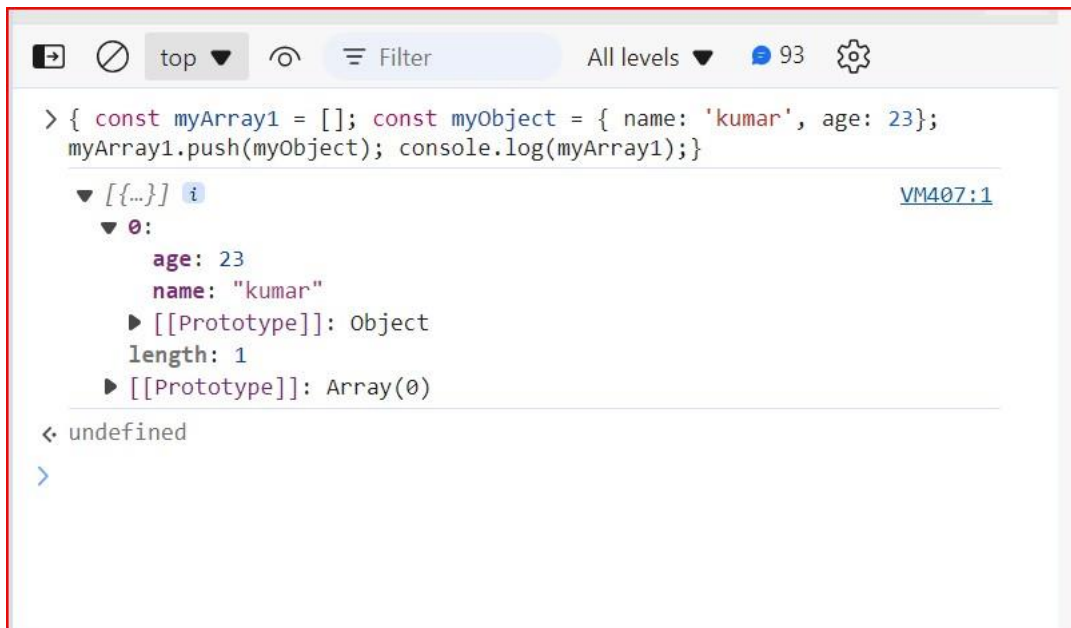
1. Write a JS program to append an Object to a const Array.

```
// Define a constant array
const myArray1 = [];

// Define a constant Object
const myObject = {
  name: 'Alice',
  age: 30
};

// Append the object to the array using the push method
myArray1.push(myObject);

// Log the updated array to the console
console.log(myArray1);
```



2. Insert, Remove element at the end of Array and add element at the front.

```
// Define a constant array
const myArray2 = [1, 2, 3, 4, 5];

// insert an element at the end
myArray2.push(6);
```

```
// remove the last element
myArray2.pop();

// Add an element at the front
myArray2.unshift(10);
```

```
> { const myArray = [1, 2, 3, 4, 5, 6]; myArray.push(7);
  console.log(myArray); myArray.pop(); console.log(myArray);
  myArray.unshift(10); console.log(myArray);}
```

▶ (7) [1, 2, 3, 4, 5, 6, 7]	VM980:1
▶ (6) [1, 2, 3, 4, 5, 6]	VM980:1
▶ (7) [10, 1, 2, 3, 4, 5, 6]	VM980:1

```
< undefined
>
```

3. Reverse a string using Javascript.

```
// Function to reverse a string
function reverseString(str) {
    return str.split('').reverse().join('');
}

function reverseStringLoop(str) {
    let reversed = '';
    for (let i = str.length - 1; i >= 0; i--) {
        reversed += str[i];
    }
    return reversed;
}

const reverseString = function reverseStringSpread(str) {
    return [...str].reverse().join('');
}

// Example usage
const originalString = 'Hello, World!';
const reversedString = reverseString(originalString);
const reversedStringLoop = reverseStringLoop(originalString);
const reversedStringSpread = reverseStringSpread(originalString);
console.log('Original String:', originalString);
console.log('Reversed String:', reversedString);
console.log('Reversed String:', reversedStringLoop);
console.log('Reversed String:', reversedStringSpread);
```

```

> {const reverseString = function reverseStringSpread(str) {
    return [...str].reverse().join('');
  }; reverseString("kumar")}
< 'ramuk'
> {const reverseString = function reverseStringLoop(str) {
    let reversed = '';
    for (let i = str.length - 1; i >= 0; i--) {
      reversed += str[i];
    }
    return reversed;
  }; reverseString("sanjeev")}
< 'veejnas'
> {const reverseString = function reverseString(str) {
    return str.split('').reverse().join('');
  }; reverseString("sanjeev kumar")}
< 'ramuk veejnas'
>

```

4. Display updated date with interval of 2 ms in HTML page

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Update Date Every 2ms</title>
</head>
<body>
  <div id="dateTime">Loading...</div>

  <script>
    function updateDateTime() {
      const now = new Date();
      document.getElementById('dateTime').textContent = now;
    }

    // Update the date and time every 2 milliseconds
    setInterval(updateDateTime, 2);
  </script>
</body>
</html>

```

← → ↻ ⓘ 127.0.0.1:5500/date.html

Mon Aug 05 2024 19:35:01 GMT+0530 (India Standard Time)