Assignment2

WAP to find sum of numbers at even places in an array of integers using for in loop

```
let numStr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];

const sumEvens = (numStr) => {
  let sum = 0;
  for (let i = 0; i < numStr.length; i++) {
    if (i % 2 === 0){
    sum = sum + numStr[i];
    }
  }
  return sum;
}

console.log(sumEvens(numStr));
```

WAP to reverse an integer

```
// num = [ '-', '5', '4', '3', '2', '1', '0', '0' ]

num.reverse()

// num = [ '0', '0', '1', '2', '3', '4', '5', '-' ]
```

What is the difference between forEach and map

The forEach() method does not returns a new array based on the given array. The map() method returns an entirely new array. The forEach() method returns “undefined“. The map() method returns the newly created array according to the provided callback function.

WAP to remove duplicates from a string (for eg: “Hello Yellow” -> “Helo Yw”)

```
// JavaScript program to remove duplicate character
// from character array and print in sorted
// order
function removeDuplicate(str, n)
   {
```

```
    // Used as index in the modified string
    var index = 0;

    // Traverse through all characters
    for (var i = 0; i < n; i++)
    {

        // Check if str[i] is present before it
        var j;
        for (j = 0; j < i; j++)
        {
            if (str[i] == str[j])
            {
                break;
            }
        }

        // If not present, then add it to
        // result.
        if (j == i)
        {
            str[index++] = str[i];
        }
    }

    return str.join("").slice(str, index);
}

// Driver code
    var str = "geeksforgeeks".split("");
    var n = str.length;
    document.write(removeDuplicate(str, n));
```

WAP to that takes year (number) and month (number) as input and prints the month, year and number of days in that month in this format -> *dayCount:month:year* using switch case. Cover the edge case where the user enters rubbish input.

```
const currentMonth = new Date();
const months = ["January", "February", "March", "April", "May", "June", "July",
"August", "September", "October", "November", "December"];
console.log(months[currentMonth.getMonth()]);
```

WAP to sort an array of objects on the basis of age

```
// program to sort array by property name

function compareName(a, b) {

  // converting to uppercase to have case-insensitive comparison
  const name1 = a.name.toUpperCase();
  const name2 = b.name.toUpperCase();

  let comparison = 0;

  if (name1 > name2) {
      comparison = 1;
  } else if (name1 < name2) {
      comparison = -1;
  }
  return comparison;
}

const students = [{name: "John", age: 26},{name: "Alice", age: 30}, {name:
"Bob", age: 29},{name: "Steve", age: 35}];

console.log(students.sort(compareName));
```