## COMSATS UNIVERSITY ISLAMABAD ATTOCK CAMPUS



### Assignment # 1

Name: Muhammad Muaaz Shoaib Registration Number: FA20-BCS-074

Course name: Mobile Application Development Course Code: CSC303

Instructor: Babar Shahzad Marks: 10

Date: March 12, 2023

Submission deadline: 12 March 2023

#### Problem 1:

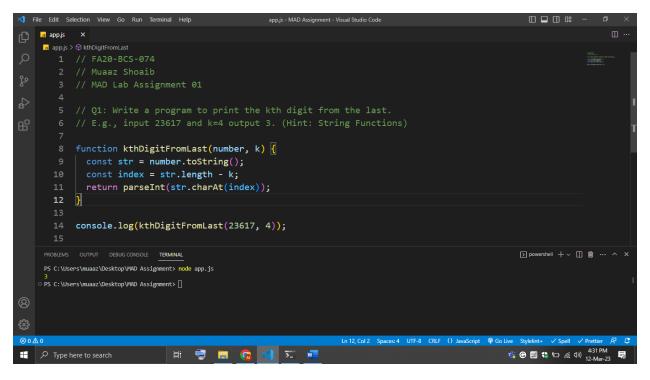
Write a program to print the kth digit from the last. E.g., input 23617 and k=4 output 3. (Hint: String Functions)

```
// FA20-BCS-074
// Muaaz Shoaib
// MAD Lab Assignment 01

// Q1: Write a program to print the kth digit from the last.
// E.g., input 23617 and k=4 output 3. (Hint: String Functions)

function kthDigitFromLast(number, k) {
  const str = number.toString();
  const index = str.length - k;
  return parseInt(str.charAt(index));
}

console.log(kthDigitFromLast(23617, 4));
```



#### Problem 2:

Write a program to find the sum of all digits. Input 23618 output 2+3+6+1+8=20 (Hint: String Functions)

(Hint: convert string to array and then use reduce function)

```
// FA20-BCS-074
// Muaaz Shoaib
// MAD Lab Assignment 01

// Q2: Write a program to find the sum of all digits.
// Input 23618 output 2+3+6+1+8=20 (Hint: String Functions)
// (Hint: convert string to array and then use reduce function)

function sumOfDigits(number) {
  const digits = number.toString().split("");
  const sum = digits.reduce((acc, digit) => acc + parseInt(digit), 0);
  return sum;
```

# } console.log(sumOfDigits(23618));

#### Problem 3:

Write a program to find the sum of even digits. Input 23617 output 2+6=8.

(Hint: Convert string to array and use filter function)

```
// FA20-BCS-074
// Muaaz Shoaib
// MAD Lab Assignment 01

// Q3: Write a program to find the sum of even digits.
// Input 23617 output 2+6=8.
// (Hint: Convert string to array and use filter function)

function sumOfEvenDigits(number) {
```

```
const digits = number.toString().split("");
    const sum = digits
        .filter((digit) => parseInt(digit) % 2 === 0)
        .reduce((acc, digit) => acc + parseInt(digit),
0);
    return sum;
console.log(sumOfEvenDigits(23617));
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    1 // FA20-BCS-074
    2 // Muaaz Shoaib

      3 // MAD Lab Assignment 01
      9 function sumOfEvenDigits(number) {
         const digits = number.toString().split("");
           .filter((digit) => parseInt(digit) % 2 === 0)
             .reduce((acc, digit) => acc + parseInt(digit), 0);
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