**Javascript Assignment 6**

1) Perform the following operations to provide the implementation for a Rectangle class. The operations are:

1. Add an area() method to the Rectangle class.

2. Create a Square class that satisfies the following conditions:

○ It is a subclass of Rectangle.

○ It contains a constructor and no other methods.

○ It can use the Rectangle class' area method to print the area of a Square object.

class Rectangle {

    area(side) {

        let areaSquare;

        areaSquare = side \* side;

        console.log(`area of the object square is ${areaSquare}`);

    }

}

class Sqaure extends Rectangle {

    constructor(side) {

        /\* calling method from Base class \*/

        super().area(side);

        /\* variable from local class \*/

        this.side = side;

    }

}

const obj = new Sqaure(81);

**Output:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node Rectangle.js

area of the object square is 6561

2) Write a javascript function find\_largest to return the nth largest number in an array-

eg- given an array of integers- [3,45,6,7,23,5,7,8]

find\_largest(3) will return third largest number from the above array - which is 8.

function find\_largest(num) {

    let arr = [3,45,6,7,23,5,7,8];

    arr.sort(function(a, b) {

        return b-a;

    });

    console.log(arr);

    for(let i = 1; i <= arr.length ; i++) {

        if (i == num) {

            return arr[num-1];

        }

    }

}

const prompt = require("prompt-sync")({sigint : true});

let nthEle = prompt("Enter the nth element : ");

let large = find\_largest(nthEle);

console.log(`Largest ${nthEle} is : ${large}`);

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node find\_largest.js

Enter the nth element : 3

[

45, 23, 8, 7,

7, 6, 5, 3

]

Largest 3 is : 8

3) Write a JavaScript program which accept a number as input in the function parameter and insert dashes (-) between each two even numbers.

For example if you accept 025468 as the output should be 0-254-6-8.

computeDash(025468) -> 0-254-6-8.

function computeDash(number) {

    const  numArr = Array.from(String(number).padStart(2, '0'), Number);

    numArr.unshift(0);

    for(let i = 0; i<= numArr.length; i++) {

        if(numArr[i] % 2 == 0 && numArr[i+1] % 2 == 0) {

            numArr.splice(i+1, 0, '-');

            continue;

        }

    }

    return numArr.join("");

}

const prompt = require("prompt-sync")({sigint : true});

let number = prompt("Enter the number having few few consecutive digits are even: ");

let result = computeDash(number);

console.log(`Newly generated number  is ${result}`);

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node computeDash.js

Enter the number having few few consecutive digits are even: 23467808

Newly generated number is 0-234-678-0-8