# 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:
  - o It is a subclass of Rectangle.
  - It contains a constructor and no other methods.
  - o It can use the Rectangle class' area method to print the area of a Square object.

## //Program to Implement Rectangle Class and Square Child class

```
class Rectangle {
          constructor(length, breadth = length) {
            this.length = length;
            this.breadth = breadth
          getArea() {
             return ('Area is ${this.length * this.breadth}');
          }
       };
       class Square extends Rectangle {
          constructor(length, breadth = length) {
             super(length, breadth);
          }
       };
//driver Code
       let rect = new Square(15);
       console.log(rect.getArea())
```

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.

#### // Program to find nth largest number in an array

```
class nthLargest {
  constructor(arr) {
    this.arr = arr;
}
find_largest(n){
  let sorted = this.arr.sort(function(a,b) {
    return a-b;
})
  let filtered = [...new Set(sorted)]
  console.log('Here is the list without duplicates and sorted in ascending order:
[${filtered}]')
  return filtered[n-1];
}
```

## //driver Code

```
let obj = new nthLargest([3,45,6,7,23,5,7,8]);
console.log(obj.find_largest(3))
```

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.

# // Program to insert dashes (-) between each two even numbers.

```
function insertDash(num) {
  let numArr = num.toString();
  let result = [numArr[0]];

  for (let x = 1; x < numArr.length; x++) {
    if (numArr[x - 1] % 2 === 0 && numArr[x] % 2 === 0) {
      result.push('-', numArr[x]);
    } else {
      result.push(numArr[x]);
    }
  }
  return (result.join(''));
}</pre>
```

#### //driver Code

```
let output = insertDash(01246834686);
console.log(output);
```