Name: Ayush Agrawal

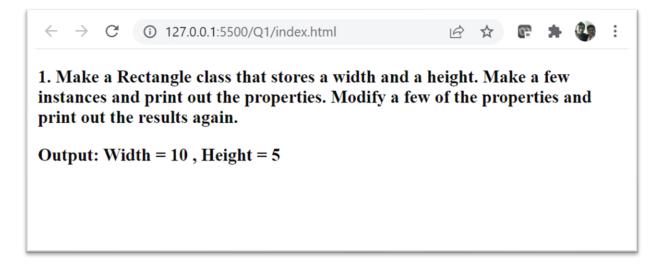
Date: 03-03-2022

# **Assignment-3**

1. Make a Rectangle class that stores a width and a height. Make a few instances and print out the properties. Modify a few of the properties and print out the results again.

#### JavaScript:

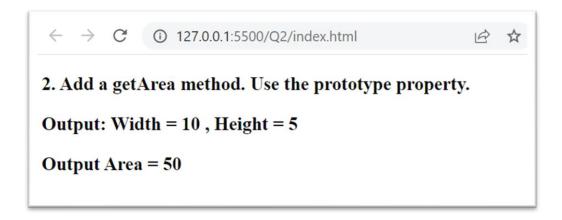
#### Output:



2. Add a getArea method. Use the prototype property.

#### JavaScript Code:

### **Output:**



3. Assuming that the Rectangle constructor takes a width and a height, why does the following output 20 instead of 200? (Hint: if you see an answer that seems too obvious to be what I am looking for,

```
it probably is the answer I am looking for.)
```

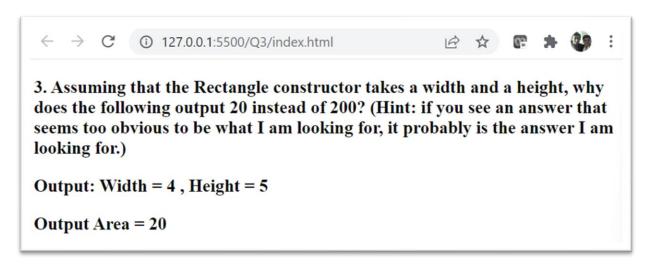
```
Rectangle r = new Rectangle(4, 5);
```

```
r.hieght = 50;
```

### JavaScript Code:

```
Q3 > Js index.js > ...
       class rectangle {
         constructor(width, height) {
           this.width = width;
           this.height = height;
       rectangle.prototype.getArea = function () {
       return this.width * this.height;
       };
 10
      myRectangle = new rectangle(4, 5);
 11
 12
       document.write(
 13
         `<h3>Output: Width = ${myRectangle.width} ,
        Height = ${myRectangle.height}</h3>`
 14
       );
 15
       document.write(`<h3>Output Area = $
       {myRectangle.getArea()}</h3>`);
 17
```

### **Output:**



### Q4 and Q5:

# **JavaScript Code:**

### **Output:**



Q6 & Q7

JavaScript Code:

```
Q6, Q7 > s index.js > [0] text

1   const text = '[ "Ayush", "Agrawal" ]';
2   const myArr = JSON.parse(text);
3
4   document.write(`<h3>First Name: ${myArr[0]}</h3>`);
5   document.write(`<h3>Last Name: ${myArr[1]}</h3>`);
6
```

# **Output:**

