

# MERN STACK DEVELOPMENT

## OOP – Task 7

### 2. [https://github.com/rvsp/typescript-oops/blob/master/Practice class-circle.md](https://github.com/rvsp/typescript-oops/blob/master/Practice%20class-circle.md)

#### code

//Converting UML Diagram to Typescript

```
class Circle{
  constructor(radius, color){
    this.radius = radius;
    this.color = color;
  }

  getRadius(){return this.radius;}
  setRadius(){this.radius = radius;}
  getColor(){return this.color;}
  setColor(){this.color = color;}
  toString(){
    return `Circle [radius: ${this.radius}, color: ${this.color}]`;
  }
  getArea(){
    return 3.14159 * this.radius * this.radius;
  }
  getCircumference(){
    return 2 * 3.14159 * this.radius;
  }
}
```

```
let diagram = new Circle(1, "red");
console.log(diagram.getRadius());
console.log(diagram.getColor());
console.log(diagram.toString());
console.log(diagram.getArea());
console.log(diagram.getCircumference());
```

#### input

Radius - 1

Color - Red

#### output

