

```
public class Circle extends GeometricObject{
    private double radius;
    public Circle(){

    }
    public Circle(double radius){
        this.radius = radius;
    }
    public Circle(String color,boolean filled,double radius){
        super(color, filled);
        this.radius = radius;
    }

    public double getRadius() {
        return this.radius;
    }

    public void setRadius(double radius) {
        this.radius = radius;
    }

    public double getDiameter() {
        return radius*2;
    }

    @Override
    public double getArea() {
        return (radius*radius)*3.14;
    }
    @Override
    public double getPerimeter() {
        return 6.28*radius;
    }
    @Override
    public String toString() {
        return super.toString()+ "\nArea :"+ getArea() + "\nDiameter :
"+getPerimeter();
    }
}
```