3. write a java program to create a class called shape with methods called getperimeter() and getarea() craete a subclass called circle that overrides the getperimeter and get area() methods ti calculate the area and perimeter of a class

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PROGRAM:
abstract class Shape {
  public abstract double getPerimeter();
  public abstract double getArea();
}
class Circle extends Shape {
  private double radius;
  public Circle(double radius) {
    this.radius = radius;
  }
  @Override
  public double getPerimeter() {
    return 2 * Math.PI * radius;
  }
  @Override
  public double getArea() {
    return Math.PI * radius * radius;
  }
}
public class Main {
  public static void main(String[] args) {
    Circle circle = new Circle(5); // Create a circle with radius 5
    System.out.println("Circle with radius 5:");
```

```
System.out.println("Perimeter: " + circle.getPerimeter());
System.out.println("Area: " + circle.getArea());
}
OUTPUT:
```

Circle with radius 5:

Perimeter: 31.41592653589793

Area: 78.53981633974483