

**Name: Chandrahasa B**

**Student code: AF0336567**

**Batch Code: ANP-C6315**

## **Lab Assignment – 7**

**Question 1: Write a Java program to calculate Area of a Circle, that has a constant field 'pi' marked as final. Read radius from user and display area of circle value to console.**

**INPUT:**

```
import java.util.Scanner;
```

```
public class CircleAreaCalculator {
```

```
    // Define a constant 'pi'
```

```
    public static final double PI = 3.14159265359;
```

```
    public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);
```

```
        // Prompt the user to enter the radius
```

```
        System.out.print("Enter the radius of the circle: ");
```

```
        double radius = scanner.nextDouble();
```

```
        // Calculate the area of the circle
```

```
        double area = PI * radius * radius;
```

```
        // Display the result
```

```
        System.out.println("The area of the circle with radius " + radius + " is: " + area);
```

```
        scanner.close();
```

}

}

OUTPUT:

Enter the radius of the circle: 5

The area of the circle with radius 5.0 is: 78.53981633974483