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### Lab Assignment-4

**Q1:** 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:

```
package CoreJava;  
import java.util.Scanner;
```

```
public class AreaofCircle {  
    // Declare a final field for pi  
    private static final double PI = 3.14159;  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        // Create a Scanner object to read input from the user  
        Scanner scanner = new Scanner(System.in);  
        // Prompt the user to enter the radius of the circle  
        System.out.println("Enter the radius of the circle:");  
        // Read the radius from the user  
        double radius = scanner.nextDouble();  
        // Calculate the area of the circle  
        double area = PI * radius * radius;  
        // Display the area of the circle to the console  
        System.out.println("The area of the circle is: " + area);  
        scanner.close();  
    }  
}
```

#### Output:

Enter the radius of the circle:

12

The area of the circle is: 452.38895999999994