PRACTICAL 9:

AIM: Write a program in Java to demonstrate the use of the final keyword in the field declaration and how it is accessed using objects.

CODE:

class Circle {

final double PI = 3.14159; // final field

double radius;

// Constructor to initialize radius

Circle(double r) {

radius = r;

}

// Method to calculate and display the area of the circle

void displayArea() {

double area = PI \* radius \* radius;

System.out.println("Radius: " + radius);

System.out.println("Area: " + area);

}

}

public class FinalFieldDemo {

public static void main(String[] args) {

// Creating a Circle object with radius 5.0

Circle c1 = new Circle(5.0);

// Displaying area

c1.displayArea();

// Accessing the final field PI using the object

System.out.println("Accessing final field PI: " + c1.PI);

// Uncommenting the line below will cause a compile-time error

// because final fields cannot be modified

// c1.PI = 3.14;

}

}

OUTPUT:

