CASE NO. 6

```java
import java.util.Scanner;

public class Case6Angulo {
  public static void main(String[] args) {
    Scanner kb = new Scanner(System.in);

    // Declare the variables needed
    double length, width, base, height, radius;

    // Input and calculation for rectangle
    System.out.print("——RECTANGLE——————————— \n");
    System.out.print("Enter the length: ");
    length = kb.nextDouble();
    System.out.print("Enter the width: ");
    width = kb.nextDouble();
    rectArea(length, width);

    // Input and calculation for triangle
    System.out.print("——TRIANGLE——————————— \n");
    System.out.print("Enter the base: ");
    base = kb.nextDouble();
    System.out.print("Enter the height: ");
    height = kb.nextDouble();
    triArea(base, height);

    // Input and calculation for circle
    System.out.print("——CIRCLE——————————— \n");
    System.out.print("Enter the radius: ");
    radius = kb.nextDouble();
    circArea(radius);
  }

  // Method to calculate the area of a RECTANGLE
  public static void rectArea(double length, double width) {
    // rectangleArea = length * width
    double rectangleArea = length * width;
    System.out.println("Area of the rectangle is " + rectangleArea);
    System.out.println();
  }

  // Method to calculate the area of a TRIANGLE
  public static void triArea(double base, double height) {
    // triangleArea = 1/2 * base * height
    double triangleArea = (base * height) / 2;
    System.out.println("Area of the triangle is " + triangleArea);
    System.out.println();
  }

  // Method to calculate the area of a CIRCLE
  public static void circArea(double radius) {
    final double PI = 3.1415926535d;
    // circleArea = PI * radius^2
    double circleArea = PI * (radius * radius);
    System.out.println("Area of the circle is " + circleArea);
    System.out.println();
  }
}
```

```
D:\0010\Documents\Acads\BSIT 2A\Case Problems>javac Case6Angulo.java

D:\0010\Documents\Acads\BSIT 2A\Case Problems>java Case6Angulo
---RECTANGLE-----------------
Enter the length: 4
Enter the width: 5
Area of the rectangle is 20.0

---TRIANGLE------------------
Enter the base: 6
Enter the height: 3
Area of the triangle is 9.0

---CIRCLE--------------------
Enter the radius: 2
Area of the circle is 12.566370614
```