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FA21-BSE-080

Section A

LAB 2
Software Testing

Create a program in java to implement Logic to find third angle of a triangle. After that check the triangle type with respect to the angle. Write the program on either paper or compiler but do not execute.

```
import java.util.Scanner;

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

        // Input for the first two angles
        System.out.print("Enter the first angle of the triangle: ");
        double angle1 = scanner.nextDouble();
        System.out.print("Enter the second angle of the triangle: ");
        double angle2 = scanner.nextDouble();

        // Calculating the third angle
        double angle3 = 180 - angle1 - angle2;
        System.out.println("The third angle of the triangle is: " + angle3);

        // Checking the type of triangle
        if (angle1 == 90 || angle2 == 90 || angle3 == 90) {
```

```
            System.out.println("The triangle is a right-angled triangle.");
        } else if (angle1 > 90 || angle2 > 90 || angle3 > 90) {
            System.out.println("The triangle is an obtuse-angled triangle.");
        } else {
            System.out.println("The triangle is an acute-angled triangle.");
        }
    }
}
```

THE END