COM2044 LAB 4 Q1

Title: Geometric Area Calculator

Create a class named ShapeAreaCalculator that calculates the area of various geometric shapes using **method overloading**.

Requirements:

1. Overload a method named calculateArea for the following shapes:

Square: calculateArea(int side)

o Rectangle: calculateArea(int length, int width)

Circle: calculateArea(double radius)

Triangle: calculateArea(int base, double height)

Pi = 3.14159

```
Sum (5 + 10): 15.0

Product (2.5 * 4.0): 10.0

Power (2^3): 8.0

Square root of 16: 4.0

Log of 2.71828: 0.999999327347282

Absolute of -42.5: 42.5

Unknown operation: -1.0
```