Task 1

**Implement** the design of the **Calculator** class so that the following output is produced:

Driver Code	Output
# Write your code here	Calculator is ready!
c1 = Calculator() print("=========") val = c1.calculate(10, 20, '+') print("Returned value:", val) c1.showCalculation() print("==========") val = c1.calculate(val, 10, '-') print("Returned value:", val) c1.showCalculation() print("==========") val = c1.calculate(val, 5, '*') print("Returned value:", val) c1.showCalculation() print("==========") val = c1.calculate(val, 16, '/') print("Returned value:", val) c1.showCalculation()	Returned value: 30 10 + 20 = 30 =================================

## Task 2

## Task 2

Design a class Shape for the given code below.

- Write a class Shape.
- Write the required constructor that takes 3 parameters and initialize the instance variables accordingly.
- Write a method area() that prints the area.

**Hint:** the area method can calculate only for the shapes: Triangle, Rectangle, Rhombus, and Square. So, you have to use conditions inside this method

For this task, assume that --

- for a triangle, the arguments passed are the base and height
- for a rhombus, the arguments passed are the diagonals
- for a square or rectangle, the arguments passed are the sides.

Driver Code	Output
# Write your code here	Area: 125.0
triangle = Shape("Triangle",10,25)	Area: 100
triangle.area()	====================================
print("======"")	=======================================
square = Shape("Square",10,10)	Area: 450
square.area()	Area: Shape unknown
print("======"")	
rhombus = Shape("Rhombus",18,25)	
rhombus.area()	
print("======"")	
rectangle = Shape("Rectangle",15,30)	
rectangle.area()	
print("======"")	

trapezium = Shape("Trapezium",15,30)	
trapezium.area()	