Exercise 1:

Write java a class called Calculator. The Calculator class will have six data members: num1 (an int), num2 (an int), sum (an int), difference (an int) product (an int) and quotient (a float).

Write a java program to test your Calculator class. Your program should Create one Calculator object, prompt the user to enter two numbers, stores the sum, difference, product and quotient in the attributes and displays them on screen.

Calculator
+ num1 : int
+ num2 : int
+ sum: int
+ difference: int
+ product: int
+quotient: float

Exercise 2:

Write a java class called Distance. The Distance class will have three data members: kilometres (a float), meters (a float), and centimetres (a float). Remember that there are 100 centimetres in one meter and 1000 meters in one kilometres.

Write a java program to test your Distance class. Your program should:
Create three Distance objects dist1, dist2 and dist3, prompt the user to enter values for the Distance objects in meters. Calculate the distance in kilometres and centimetres and store them in the attributes of the corresponding objects then display distance in kilometres, meters and

centimetres. Display the total distance in meters after adding all three distances.

Distance
+ kilometres: float + meters : float + centimetres: float