



School of Computing Science and Engineering

LAB - 2 Exercises

Course Code	:	CSE3025 - Large Scale Data Processing	Date	:	09/02/2021
Lab Experiment	:	Basics of JAVA for Hadoop (OOPs concepts in Java)	Slots	:	L29+L30
Instructors	:	Dr. Ramesh Ragala			

Objective:

To explore the java basics for writing Hadoop – MapReduce Programming

1. The file Distance.java program is used to compute the distance between two points. Recall that the distance between the two points (x_1, y_1) and (x_2, y_2) is computed by taking the square root of the quantity $(x_1 - x_2)^2 + (y_1 - y_2)^2$. You need to add statements to compute the distance and then a print statement to print it out.

Test your program using the following data:

The distance between the points $(3, 17)$ and $(8, 10)$ is 8.6023..

The distance between $(-33, 49)$ and $(-9, -15)$ is 68.352....



2. Write a complete Java program that simulates the rolling of a pair of dice. For each die in the pair, the program should generate a random number between 1 and 6 (inclusive). It should print out the result of the roll for each die and the total roll (the sum of the two dice), all appropriately labeled. You must use the Random class. Refere internet to get more details on RandomNumbers. (Implement using oops concpets)
3. Develop a Java program that should read the lengths of two sides of a right triangle and compute the length of the hypotenuse (recall that the length of the hypotenuse is the square root of side 1 squared plus side 2 squared).
4. Write a program to create a room class. The attributes of this class is roomno, roomtype, roomarea and ACmachine. In this class the member functions are setdata and displaydata.
5. Write a program to create a class named shape. In this class we have three sub classes circle, triangle and square each class has two member function named draw () and erase (). Create these using polymorphism concepts.