

COL106 : 2021-22 (Semester I)

Assignment 0

Instructions: Assignment 0 will not be graded. You must submit the lab submission problem on Moodle by 11:59pm on your lab day. We will also have a *lab test* from 3:10pm. Please refer to the previous email for instructions regarding the lab test.

In the lab, we will discuss the following problems (exercises 29, 30, 32 from the Java Module):

1. (JM Exercise 29) Area - Create a class to calculate and print the area of a square and a rectangle. The class will have two methods with the same name but different number of parameters. The method for printing area of rectangle has two parameters which are length and breadth respectively while the other method for printing area of square has one parameter which is side of square.
2. (JM Exercise 30) Create a multi-threaded program by using Runnable interface and then create, initialize and start three Thread objects from your class. The threads will execute concurrently and display the following String array elements e.g. String course [] = "Java", "C++", "C", "Php"; Use getName() to identify the different threads.
3. **Lab submission problem:** (JM Exercise 32) Counter-Create two threads such that each thread print sequence of numbers from 1 to 10 in an ordered fashion using synchronization.