Ex.No: 5	**PROGRAM TO DEMONSTRATE Multi-threading IN JAVA**
27/09/2020	

a) Write a JAVA program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints it. If the value is odd, the third thread will print the cube of the number. Make use of Exception handling mechanism as per the requirement.

b) Consider banking application. Create a class Bank, which represents a bank that manages accounts and provides money transfer function. Make use of the synchronized keyword to serialize access to the corresponding methods.

c) Write a JAVA program to show that **without synchronization**, problems will happen when 2 passengers try to book train ticket, especially when only 1 ticket was available.

d) Write a JAVA program to provide a solution to the above mentioned program (c) by implementing the same **using synchronization** concept of multi-threading.