

## CMPE 261 - Large Scale Programming

Worksheet(Week-08B)

## Part I

Write a multi-thread (multiple users) program that buys a list of item. By default all user want to buy all item starting from the first one. When the program is executed, the following output message may be generated.

```
Suppose the list of items are:
//String [ ]items={"BMW","BENZ","Fiat","Honda","Sony","Toyota"}
// The output is ( your output is may be differnt)
```

Bilgi able to get: BMW
Itu able to get: BMW
Bilgi able to get: BENZ
Itu able to get: BENZ
Bilgi able to get: Fiat
Itu able to get: Honda
Itu able to get: Sony
Bilgi able to get: Sony
Itu able to get: Toyota

## Part II

Now modify Part I, that a user allowed to buy one item only. If you look at the Part I, both of Bilgi and Itu have bout bought, **Benz** and **BMW** at the same time. Please solve this problem using the **ReentrantLock** class.

The following output message may be generated.

Itu able to get: BMW
Bilgi able to get: BENZ
Itu able to get: Fiat
Bilgi able to get: Honda
Itu able to get: Sony



Bilgi able to get: Toyota

## Part III

Do part II, using the **synchronized** methods instead of the ReentrantLock class