

Velammal College of Engineering and Technology, Madurai
Department of Computer Science and Engineering
Object oriented programming lab

Exercise 11

MultiThreading

Team 1

1. Write a program TestThreadMany.java that takes a positive integer n from the command line and creates exactly n threads that print out their own name. Here is a sample execution:

```
$ java TestThreadMany 4  
Hello, I am Thread #1  
Hello, I am Thread #2  
Hello, I am Thread #3  
Hello, I am Thread #4
```
2. Write a java program that implements Ticket booking System using multithreading and synchronization.

Team 2

1. Write a Java program to demonstrate that as a high-priority thread executes, it will delay the execution of all lower-priority threads.
2. Write a java program that implement online shopping using Multithreading and synchronization.

Team 3

1. Write a Java program 'WordCount' that counts the words in one or more files. Start a new thread for each file. For example, if you call "java WordCount report.txt address.txt Homework.java" then the program might print
address.txt: 1052
Homework.java: 445
report.txt: 2099
2. Write a java program that implements venue booking using Multithreading and synchronization.

Team 4

1. Write a Java program that implements multithreading concepts. Create the application with 3 threads. First thread creates random number. If the value is even then second thread computes square of that number and display it. If the generated random value is odd the third thread prints the value of cube of that number.

2. Write a java program that implements cab booking System using multithreading and synchronization.

Team 5

1. Write a java program for generating three threads to perform the following operations
 - i) Getting N numbers as input
 - ii) Printing the numbers divisible by five
 - iii) Computing the average.
2. Write a java program that implements inter-thread communication for banking application

Team 6

1. Write a Java program 'WordCount' that counts the words in one or more files. Start a new thread for each file. For example, if you call
"java WordCount report.txt address.txt Homework.java" then the program might print
 address.txt: 1052
 Homework.java: 445
 report.txt: 2099
2. Write a java program that implement lending books from library using Multithreading and synchronized.

Team 7

1. Write a java program that implements a multi-threaded application that has three threads. First thread generates a random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.
2. Write a java program that implements food ordering using Multithreading and Synchronization.