CSE1007-Java Programming

LABCAT-2

1. Create a chat box using two threads. Each thread should wait for another thread to reply for the chat and proceed with the chat. The chat box should be closed, when any one of the thread writes “Bye”.
2. Write a program that reads an expression from the file and split the operands and operators into the two separate files. Count the number of operands and operators and evaluate the expression. (use Data Input and output stream).
3. Write a class that maintains the COVID record of n patients and store the information into the file “record.txt”. Write another program that extracts only the list of patients whose COVID results are positive.
4. Write a class TouristSpot that has the data members; name of tourist spot, state in which it lies. Create an array list of n places and write a function that takes array list as an argument to identify a state that has more than one tourist spot.
5. Create a linked list that contains the list of Fibonacci series till 100. Write a function to identify the prime numbers from the linked list and store the prime numbers in one array list and composite numbers in another array list. Display the elements in both the array list.