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1/*EXP 11 PL2 AIM:Write a program to print alphabets and numbers using two threads.
2
3package pkg3;
4public class PrintAlphanum {
5    private static final Object lock = new Object();
6    private static volatile boolean isAlphabetTurn = true;
7    public static void main(String[] args) {
8        Thread alphabetThread = new Thread(new PrintAlphabets());
9        Thread numberThread = new Thread(new PrintNumbers());
10       alphabetThread.start();
11       numberThread.start();
12       try {
13           alphabetThread.join();
14           numberThread.join(); } catch (InterruptedException e) {
15           e.printStackTrace(); }
16   static class PrintAlphabets implements Runnable {
17       @Override
18       public void run() {
19           for (char c = 'A'; c <= 'Z'; c++) {
20               synchronized (lock) {
21                   while (!isAlphabetTurn) {
22                       try {
23                           lock.wait(); } catch (InterruptedException e) {
24                           e.printStackTrace(); }
25                           System.out.print(c + " ");
26                           isAlphabetTurn = false;
27                           lock.notifyAll(); } } }
28   static class PrintNumbers implements Runnable {
29       @Override
30       public void run() {
31           System.out.println("~A CODE BY KASHISH GUPTA");z
32           for (int i = 1; i <= 26; i++) {
33               synchronized (lock) {
34                   while (isAlphabetTurn) {
35                       try {
36                           lock.wait(); } catch (InterruptedException e) {
37                           e.printStackTrace(); } }
38                           System.out.print(i + " ");
39                           isAlphabetTurn = true;
40                           lock.notifyAll(); } } } }
41
```