

LAB#4**Start, Sleep and Stop methods of multithreading****OBJECTIVE:**

Understanding concurrency by implementing start, sleep and stop thread functions

Lab Task:

By using start, stop and sleep methods of threading, print alphabets of English from A-Z.

(Hint:

use Math.random method for getting random numbers and then convert them into characters, print 26 characters under run method loop with fluctuating visualization through sleep method).

```

1  class AlphabetThread extends Thread {
2      @Override
3      public void run() {
4          try {
5              for (int i = 0; i < 26; i++) {
6                  char ch = (char) ('A' + i);
7                  System.out.print(ch + " ");
8              }
9              // Sleep for a random duration between 200-1000 ms
10             int sleepTime = (int) (Math.random() * 800 + 200);
11             Thread.sleep(sleepTime);
12         }
13         catch (InterruptedException e) {
14             System.out.println("Thread hai");
15         }
16     }
17 }



18 public class NewClass {
19     public static void main(String[] args) {
20         // Create thread object
21         AlphabetThread t = new AlphabetThread();
22         t.start();
23     }
24 }

```


OUTPUT:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z BUILD SUCCESSFUL (total time: 14 seconds)

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