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## Lab Assignment 05

### Lab Assignment 05:

**Deadline: August 24, 11:59 PM.**

#### Instructions:

The task is similar to the producer–consumer problem discussed in the video.

The *SharedMemory* class is used by two threads. The *WriterThread* writes some string to the shared memory at a random interval. The *ReaderThread* reads the memory whenever there are new values and prints those strings.

If the memory is empty, the *ReaderThread* goes to a **suspended** state. Whenever a new item is inserted, the *WriterThread* gives the suspended *ReaderThread* a **wake-up** call. You only need to modify the *SharedMemory* class.

Best of luck.

You need to modify the following java code:

```
1  /**
2   *
3   * The task is similar to the producer–consumer problem discussed in the video.
4   * The SharedMemory class is used by two threads. The WriterThread writes some string to
5   * memory at a random interval. The ReaderThread reads the memory whenever there are new
6   * prints those strings.
7   *
8   * If the memory is empty, the ReaderThread goes to a suspended state. Whenever a new it
9   * the WriterThread gives the suspended ReaderThread a wake-up call.
10  *
11  * You only need to modify the SharedMemory class.
12  *
13  * Best of luck.
14  *
15  * @author Sifat Ut Taki
16  * BRAC University
17  */
18
19  import java.util.ArrayList;
20  import java.util.List;
21
22  class SharedMemory {
23
```

LabTask.java hosted with ❤ by GitHub

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