KONKAN GYANPEETH COLLEGE OF ENGINEERING, KARJAT

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(M.S.)

⬤ Department of Information Technology ⬤

SE IT Java SLB Lab Experiment Writing Instructions

**Experiment No:** 10

**Aim:** To understand how to perform Multi threading in Java

**Theory: [**In theory explain following points**]**

1. What is difference in a process and a thread.

2. Multitasking using multi threaded programming.

3. Thread Life Cycle and corresponding Java methods.

Learn more at : [https://www.javatpoint.com/multithreading-in-java]

[Summarize the content here in 2 and ½ page]

**Problem Statement 1:**

Write a Java code to create two threads such that one thread will print even number and another will print odd number in an ordered fashion.

**Implementation : Use following implementation [**[**https://github.com/profanup/JavaSBL2023/blob/main/codes/Module4/4\_OddEvenPrinter.java**](https://github.com/profanup/JavaSBL2023/blob/main/codes/Module4/4_OddEvenPrinter.java)**]**

**Explain Code :** [Explain the code and how to create multiple thread]

**Problem Statement 2:**

Assume that two brothers, Joe and John, share a common bank account. They both can, independently, read the balance, make a deposit, and withdraw some money. Implement java application demonstrate how the transaction in a bank can be carried out concurrently.

**Implementation : Use following implementation [**[**https://github.com/profanup/JavaSBL2023/blob/main/codes/Module4/3\_BankDemo.java**](https://github.com/profanup/JavaSBL2023/blob/main/codes/Module4/3_BankDemo.java)**]**

**Explain Code : [Explain the code and how to create a concurrent appplication]**

**Conclusion :** Thus we have understood how to perform Multi threading in Java.