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Experiment No. 02

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Subject: High Performance Parallel Computing	Class/Batch: CSE-AIML / B1
Date of Performance: __ / __ / 2024	Date of Submission: __ / __ / 2024

AIM

Writing a program in java to implement Multithreading in java, via Extending the `Thread` class method.

Theory / Procedure / Algorithm

Sample Code using `Thread class`

```
class WorkerThread extends Thread {
    @Override
    public void run() {
        try {
            System.out.println(Thread.currentThread().getName() + " is running");
        } catch (Exception e) {
            System.out.println("Exception is caught");
        }
        System.out.println(Thread.currentThread().getName() + " is finished");
    }
}

public class MultithreadingExample {
    public static void main(String[] args) {
        int numberOfThreads = 8;
        for (int i = 0; i < numberOfThreads; i++) {
            WorkerThread thread = new WorkerThread();
            thread.start();
        }
    }
}
```

```
Thread-4 is running
Thread-1 is running
Thread-4 is finished
Thread-7 is running
Thread-5 is running
Thread-5 is finished
Thread-0 is running
Thread-0 is finished
Thread-6 is running
Thread-2 is running
Thread-2 is finished
Thread-3 is running
Thread-1 is finished
Thread-7 is finished
Thread-6 is finished
Thread-3 is finished
```

Explanation:

Reference:

- <https://www.geeksforgeeks.org/java-multithreading-tutorial/>
- <https://www.geeksforgeeks.org/multithreading-in-java/>

CONCLUSION**ASSESSMENT**

Timely Submission (07)	Presentation (06)	Understanding (12)	Total (25)	Sign