STIWK3014 REAL TIME PROGRAMMING

Tutorial / Exercise 8: TestAtomicInterger1p.java & Synchronization.java

Tasks 1:

- o TestAtomicInteger1p.java failed to produce the correct result. Modify the TestAtomicInteger1p.java below to display "Count=10".
- Kindly show in your line of code for each modification as "//New modification "/Screen shot the modification of the sample code and the output for the submission. (Rename as: TestAtomicInteger1p.java Code Modification and Output)



New Modification and Output

```
TS ThreadSafety_W7 Version control
<u>-</u>
            m pom.xml (ThreadSafety_W7)

    AtomicInteger1p.java ×
                    package AtomicInteger1p_Exercise8;
80

    □ public class AtomicInteger1p {
              5 ▷ public static void main(String[] args) throws InterruptedException {
                             CountProblem pt = new CountProblem();
                             Thread t1 = new Thread(pt, name: "t1");
Thread t2 = new Thread(pt, name: "t2");
                             t1.start();
                             t2.start();
                             System.out.println("Count=" + pt.getCount());
                    class CountProblem implements Runnable { 2 usages
                         @Override
                                 processSomething(<u>i</u>);
℗
                                  Thread.sleep( millis: i * 200);
\triangleright
                             } catch (InterruptedException e) {
                                  e.printStackTrace();
2
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```

Plagiarism

No mark will be given for plagiarism activities especially those copied from ChatGPT.

Submission:

Platform: 1. Online Learning - Sample Coding & Output in PdF form

2. GitHub – Upload the file and attach your GitHub link repositories.

Date: 11 May 2025 (Sunday, before 12.30 noon)