**Lab sheet -01**

**Task 03 - Synchronizing Threads**

class Counter {

private int count = 0;

// Synchronized method to ensure thread-safe access to the counter

public synchronized void increment() {

count++;

}

public int getCount() {

return count;

}

}

public class SynchronizedExample extends Thread {

private Counter counter;

public SynchronizedExample(Counter counter) {

this.counter = counter;

}

@Override

public void run() {

for (int i = 0; i < 1000; i++) {

counter.increment();

}

}

public static void main(String[] args)

throws InterruptedException {

Counter counter = new Counter();

