Thraed

Task 03

```
public 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();
    // Create and start multiple threads
Thread thread1 = new SynchronizedExample(counter);
Thread thread2 = new SynchronizedExample(counter);
thread1.start();
thread2.start();
// Wait for threads to finish
thread1.join();
thread2.join();
System.out.println("Final counter value: " + counter.getCount());
}
}
```

Output