## Assignment No.13 Topic: Thread Synchronization

## Problem Statement:

Write a program to implement Thread Synchronization

**CODE:**

//thread synchronization in java

class Counter{

int count = 0;

// if this method is not synchronized then both threads might increment together

public synchronized void increment(){

count++;

}

}

class SyncDemo1{

public static void main(String[] args) throws Exception{

Counter c = new Counter();

Thread t1 = new Thread(()->{

for(int i=0; i < 5; i++) c.increment();

},"First Thread");

Thread t2 = new Thread(()->{

for(int i=0; i < 5; i++) c.increment();

},"Second Thread");

t1.start();

t2.start();

t1.join();

t2.join();

// for synchronized method value should be 10

System.out.println("count is : " + c.count);

}

}

**OUTPUT:**

