JAVA(3350703) 186380307059

PRACTICAL:27

AIM: Write a program in Java to demonstrate use of synchronization of threads when multiple threads are trying to update common variable.

PROGRAM:

```
class PrintDemo
 public void printcount()
 {
    try
     for(int i=5; i>0;i--)
      {
        System.out.println("Counter --- "+i);
      }
     }
    catch(Exception e)
    {
       System.out.println("Thread interrupted.");
     }
class ThreadDemo extends Thread
  private Thread t;
  private String threadName;
  PrintDemo PD;
  ThreadDemo(String name,PrintDemo pd)
    threadName=name;
```

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```
PD=pd;
   }
  public void run()
     synchronized(PD)
       PD.printcount();
     System.out.println("Thread"+threadName+"exiting.");
   public void start()
     System.out.println("Starting"+threadName);
     if(t==null)
        t=new Thread(this,threadName);
        t.start();
      }
}
public class P27_7059
{
   public static void main(String args[])
     PrintDemo PD=new PrintDemo();
     ThreadDemo T1=new ThreadDemo("Thread - 1",PD);
     ThreadDemo T2=new ThreadDemo("Thread - 2",PD);
     T1.start();
     T2.start();
```

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OUTPUT:

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