```
1. Using Synchronized Method

class Test
{
    synchronized void display(int num)
    {
        System.out.println(\nTable for "+num);
        for(int i=1;i<=10;i++)
        {
            System.out.print(" "+num*i);
        }
        System.out.print("\nEnd of Table");
        try
        {
            Thread.sleep(1000);
        }
```

```
}catch(Exception e){}
A extends Thread
   Test th1;
   A(Test t)
        th1=t;
   public void run()
        th1.display(2);
class B extends Thread
   Test th2;
   B(Test t)
         th2=t;
   public void run()
         th2.display(100);
class MySynThread
    public static void main(String args[])
          Test obj=new Test();
          A t1=new A(obj);
          B t2=new B(obj);
          t1.start();
          t2.start();
```

manner. 2. Using Synchronized Block · When we want to achieve synchronization using the synchronized block then create a block of code and mark it as synchronized. Synchronized statements must specify the object that provides the intrinsic lock Syntax The syntax for using the synchronized block is synchronized(object reference) statement: statement; //block of code to be synchronized Java Program class Test void display(int num) synchronized(this) System.out.println("\nTable for "+num); for(int i=1; i < =10; i++)This is a synchronized Block System.out.print(" "+num\*i); System.out.print("\nEnd of Table"): try Thread.sleep(1000); }catch(Exception e){}

TECHNICAL PUBLICATIONS™- An up thrust for knowledge

```
A extends Thread
 Test th1;
 A(Test t)
   th1=t;
 public void run()
   th1.display(2);
class B extends Thread
 Test th2;
 B(Test t)
   th2=t;
 public void run()
   th2.display(100);
class MySynThreadBlock
 public static void main(String args[])
    Test obj=new Test(); \
    A t1=new A(obj);
    Bt2=new B(obj);
    t1.start();
    t2.start();
                                            Output
```