SOURCE CODE

```
//demonstrating synchronization
package assistedPracticeProject2;
class Synchronizedmethod
synchronized void display(int n) //display() is synchronized
 for(int i = 1; i <= 5; i++) //iterating 1 to 5
  System.out.println(n+i); //printing n 5 times
  try
  {
    Thread.sleep(200); //sleep for 2 miliseconds
  catch(InterruptedException e)
    System.out.println(e); //handle exception
  } } }
}
class Thread1 extends Thread //thread 1 extending thread
{
       Synchronizedmethod t;
       Thread1(Synchronizedmethod t) //constructor
               this.t = t;
        public void run()
               t.display(10); //passing value 10 to display()
        }
class Thread2 extends Thread //thread 2
        Synchronizedmethod t;
       Thread2(Synchronizedmethod t) //constructor
               this.t = t;
        public void run()
```

OUTPUT

```
<terminated> Practice_Project3 (1) [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclip
11
12
13
14
15
101
102
103
104
105
```

Without synchronization

```
<terminated> Practice_Project3 (1) [Java Application] C:\Users\HP\.p2\poo
11
101
12
102
13
103
14
104
105
15
```