

3. Write a program in Java to demonstrate synchronization

```
package javaFsd2;
class Table{
    synchronized void printTable(int n) {
        System.out.println(" ");
        for(int i=1;i<=5;i++) {
            System.out.println(n+"*"+i+"="+n*i);
            try {
                Thread.sleep(1000);
            } catch (InterruptedException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
    }
}

public class synchronizationDemo {
    public static void main(String[] args) {
        Table t=new Table();

        Thread t1=new Thread() {
            public void run() {
                t.printTable(5);
            }
        };

        Thread t2=new Thread() {
            public void run() {
                t.printTable(8);
            }
        };
        t1.start();
        t2.start();
    }
}
```

Output

```
Console ×
<terminated> synchronizationDemo [Java Application] C:\Users\JOTHIKA\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.

5*1=5
5*2=10
5*3=15
5*4=20
5*5=25

8*1=8
8*2=16
8*3=24
8*4=32
8*5=40
```