Lab program : 15

Ex1 Write a Java program for priniting a multiplication tables of 5 and 10 upto 10 numbers through the synchronized method called printTable(int n) using two threads Thread1 and Thread2 as the output as follows and print it without synchronized method also

```
package Threads;

class Table
{
	synchronized void printTable(int n)
	{

			for(int i=1;i<=20;i++)
			{
				System.out.println(+n+"*"+i+"="+(n*i));
				try
				{
					Thread.sleep(400);
				}
				catch(Exception e)
				{
					System.out.println(e);
				}
			}
		}
	}


class Mythread1 extends Thread
{
	Table t;
	Mythread1(Table t)
	{
		this.t=t;
	}
	public void run()
	{
		t.printTable(5);
	}
}


class Mythread2 extends Thread
{
	Table t;
	Mythread2(Table t)
	{
```

```
                this.t=t;
        }
        public void run()
        {
                t.printTable(10);
        }
}

class  WithSynchronizationMultiplicationTable
{
        public static void main(String args[])
        {
                Table obj = new Table();
                // passing Table itself as objects for threads
                Mythread1 th1 = new Mythread1(obj);
                Mythread2 th2 = new Mythread2(obj);

                th1.start();
                th2.start();
        }
}
```

o/p

```
*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
5*11=55
5*12=60
5*13=65
5*14=70
5*15=75
5*16=80
5*17=85
5*18=90
5*19=95
5*20=100
10*1=10
10*2=20
10*3=30
10*4=40
10*5=50
```

10*6=60
10*7=70
10*8=80
10*9=90
10*10=100
10*11=110
10*12=120
10*13=130
10*14=140
10*15=150
10*16=160
10*17=170
10*18=180
10*19=190
10*20=200