

Practice Program:

Create a class Table including a method which prints multiplication table of given value. Create two threads which prints multiplication table of 5 & 100 by calling the same function on same object. Test the threads.

```
class Table {
    void printTable(int int n) {
        synchronized (this) {
            for (int i = 1; i <= 10; i++) {
                System.out.println(" * " + 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(100);
    }
}
```



```
class Multiply {  
    public static void main (String args[] ) {  
        Table obj = new Table();  
        Mythread1 th1 = new Mythread1(obj);  
        Mythread2 th2 = new Mythread2(obj);  
        th1.start();  
        th2.start();  
    }  
}
```

```
} }
```

```
class Table
```

```
{
```

```
    void printTable(int n)
```

```
    {
```

```
        synchronized(this)
```

```
        {
```

```
            for(int i=1;i<=10;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)
```

```
    {
```

```
    }
```

Ln 7, Col 21

100%

Windows (CRLF)

UTF-8



Type here to search



ENG

12:20

18-12-2020



```
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(100);  
    }  
}
```

<

>

Ln 7, Col 21

100%

Windows (CRLF)

UTF-8



Type here to search



ENG

12:20
18-12-2020

```
class Mythread2 extends Thread
{
    Table t;
    Mythread2(Table t)
    {
        this.t=t;
    }
    public void run()
    {
        t.printTable(100);
    }
}

class Multiply
{
    public static void main(String args[])
    {
        Table obj = new Table();
        Mythread1 th1 = new Mythread1(obj);
        Mythread2 th2 = new Mythread2(obj);
        th1.start();
        th2.start();
    }
}
```

Command Prompt

Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\sohan>cd C:\Users\sohan\Desktop\Java Programs\multiplication table

C:\Users\sohan\Desktop\Java Programs\multiplication table>javac Multiply.java

C:\Users\sohan\Desktop\Java Programs\multiplication table>java Multiply

5*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
100*1=100
100*2=200
100*3=300
100*4=400
100*5=500
100*6=600
100*7=700
100*8=800
100*9=900
100*10=1000

C:\Users\sohan\Desktop\Java Programs\multiplication table>



Type here to search



ENG

12:21
18-12-2020

