

// Synchronization extra program

```
import java.util.Scanner;
public class Tables {
    public static void main(String args[]) {
        cal c = new cal();
        Scanner sc = new Scanner(System.in);
        System.out.println("What number of
        multiples do you want?");
        int n = sc.nextInt();
        table obj = new table(n, c, 5);
        table obj1 = new table(n, c, 100);
        try {
            obj.t.join();
            obj1.t.join();
        }
        catch (Exception e) {
            System.out.println("exception occurred");
        }
        System.out.println("thank you");
    }
}
```

```
class table implements Runnable {
    int n, tabl;
    Thread t;
    cal tar;
    table(int n, cal c, int tab) {
```

```
    tab1 = tab;  
    tar = c;  
    this.n = n;  
    t = new Thread(this);  
    t.start();
```

```
}
```

```
public void run(){  
    synchronized (tar){  
        tar.cals(n, tab1);  
    }
```

```
}
```

```
}
```

```
class cal {
```

```
    void cals(int n, int ta) {
```

```
        for (int i=1; i<=n; i++) {
```

```
            System.out.println(ta+"x"+i+"="+ (ta*i));  
        }
```

```
    }
```

```
}
```

```
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public class Tables {
public static void main(String args[]) {
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    Scanner sc = new Scanner(System.in);
    System.out.println("What number of multiples do you want?");
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    table obj = new table(n,c,5);
    table obj1 = new table(n,c,100);
    try {
        obj.t.join();
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    }catch(Exception e) {
        System.out.println("exception occurred");
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}
}

class table implements Runnable {
    int n,tabl;
    Thread t;
    cal tar;
    table(int n,cal c,int tab){
        tabl =tab;
        tar=c;
        this.n=n;
        t=new Thread(this);t.start();
    }
    public void run() {
        synchronized(tar) {
            tar.cals(n, tabl);
        }
    }
}
}
```



```

    table obj = new table(n,c,5);
    table obj1 = new table(n,c,100);
    try {
        obj.t.join();
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    }catch(Exception e) {
        System.out.println("exception occurred");
    }
    System.out.println("thank you");
}

class table implements Runnable {
    int n,tabl;
    Thread t;
    cal tar;
    table(int n,cal c,int tab){
        tabl =tab;
        tar=c;
        this.n=n;
        t=new Thread(this);t.start();
    }
    public void run() {
        synchronized(tar) {
            tar.cals(n, tabl);
        }
    }
}

class cal{
void cals(int n,int ta) {
    for(int i=1;i<=n;i++) {
        System.out.println(ta+" x "+i+" = "+(ta*i));
    }
}
}
}

```

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18363.1256]

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C:\Users\Pooja K\Desktop>javac Tables.java

C:\Users\Pooja K\Desktop>java Tables

What number of multiples do you want?

5

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

100 x 1 = 100

100 x 2 = 200

100 x 3 = 300

100 x 4 = 400

100 x 5 = 500

thank you

C:\Users\Pooja K\Desktop>

Type here to search



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