

18/12/20

```
class OddThread implements Runnable {
    Thread t;
```

```
    OddThread() {
```

```
        t = new Thread(this, "odd no cal");
```

```
        t.start();
```

```
    }
```

```
    public void run() {
```

```
        try {
```

```
            int sum = 0;
```

```
            for (int i = 1; i <= 100; i++) {
```

```
                if (i % 2 == 1) {
```

```
                    sum += i;
```

```
                }
```

```
            }
```

```
            System.out.println("Odd no. sum = " + sum);
```

```
            Thread.sleep(500);
```

```
        } catch (InterruptedException e) {
```

```
            System.out.println(e);
```

```
        }
```

```
    }
```

```
class W11EP1 {
```

```
    public static void main (String [] args) {
```

```
        OddThread ob1 = new OddThread();
```

```
        try {
```

```
            int sum = 0;
```

```
            for (int i = 1; i <= 100; i++) {
```



```
if (i % 2 == 0) {
    sum += i;
```

```
}
```

```
System.out.println("even no. sum = " + sum);
```

```
ob1.t.join();
```

```
} catch (InterruptedException e) {
```

```
System.out.println(e);
```

```
}
```

```
}
```

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```
import java.util.Random;
class CubeThread implements Runnable {
    Thread t;
    int num;
    CubeThread (int value) {
        t = new Thread (this, "cube thread");
        num = value;
        t.start();
    }
    public void run () {
        System.out.println (num * num * num);
    }
}
class SquareThread implements Runnable {
    Thread t;
    int num;
    SquareThread (int value) {
        t = new Thread (this, "square thread");
        num = value;
        t.start();
    }
    public void run () {
        System.out.println (num * num);
    }
}
class ControlThread implements Runnable {
    Thread t;
```



```
ControlThread () {  
    t = new Thread (this, "control");  
    t.start ();  
}
```

```
try {  
    public void run () {  
        for (int i = 1; i <= 20; i++) {  
            int val = (int) Math.floor (Math.random  
                () * 10);  
            if (val % 2 == 0) {  
                System.out.println ("Square of " + val + ":");  
                SquareThread ob = new SquareThread (val);  
                Thread.sleep (1000);  
                System.out.println ();  
            } else {  
                System.out.println ("Cube of " + val + ":");  
                CubeThread ob = new CubeThread (val);  
                Thread.sleep (1000);  
                System.out.println ();  
            }  
        }  
    }  
} catch (InterruptedException e) {  
    System.out.println (e);  
}  
}
```



```
class W11EP2 {
    public static void main (String args[])
    {
        ControlThread t1 = new ControlThread();
        try {
            t1.t.join();
        } catch (InterruptedException e) {
            System.out.println(e);
        }
    }
}
```

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