

Practice Program 2

```
import java.util.Random;
```

```
class RandomNumberThread extends Thread
```

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

```
        Random random = new Random();
```

```
        for (int i = 0; i < 10; i++) {
```

```
            int randomInteger = random.nextInt(100);
```

```
            System.out.println("Random Integer generated  
                                : " + randomInteger);
```

```
            if ((randomInteger % 2) == 0)
```

```
            {  
                SquareThread sThread = new SquareThread  
                    (randomInteger);
```

```
                sThread.start();
```

```
            }
```

```
            else
```

```
            {  
                CubeThread cThread = new CubeThread  
                    (randomInteger);
```

```
                cThread.start();
```

```
            }
```

```
        }  
    }  
}
```

```
        try {  
            Thread.sleep(1000);
```

```
        }  
        catch (InterruptedException ex) {  
            System.out.println(ex);
```

```
        }
```

```
    }
```

```
}
```

```
}
```

```
class SquareThread extends Thread {  
    int number;
```

```
    SquareThread (int randomNumbers) {  
        number = randomNumbers;
```

```
    }  
    public void run() {  
        System.out.println ("Square of " + number  
            + " = " + (number*number)  
        );  
    }  
}
```

```
class CubeThread extends Thread {  
    int number;
```

```
    CubeThread (int randomNumbers) {  
        number = randomNumbers;
```

```
    }  
    public void run() {  
        System.out.println ("Cube of " + number  
            + " = " + (number*number*  
            number);  
    }  
}
```

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

```
            RandomNumberThread rnThread =  
                new RandomNumberThread();  
            rnThread.start();  
        }  
    }  
}
```