Experiment No. 3b
Write a Java program that implements a multi-thread application that hash tree threads.
First thread generates a random integer for every 1 second; second thread computes the
square of the number and prints; third thread will print the value of cube of the number.

```java
import java.util.*;
class second implements Runnable
{
        public int x;
        public second(int x)
        {
                this.x= x;
        }
        public void run()
        {
                System.out.println("Second Thread: Square of number is " +x*x);
        }
}
class third implements Runnable
{
        public int x;
        public third(int x)
        {
        this.x= x;
        }
        public void run()
        {
                System.out.println("Third Thread:  Cube of number is " + x*x*x);
        }
}
class first extends Thread
{
        public void run()
        {
                int num=0;
                Random r=  new Random();
                try
                {
                        for(int i=0;i<5;i++)
                        {
                                num= r.nextInt(100);
                                System.out.println("First Thread generated is "+num);
                                Thread t2= new Thread(new second(num));
                                t2.start();
                                Thread t3= new Thread(new third(num));
                                t3.start();
                                Thread.sleep(1000);
                        }
                }
                catch(Exception e)
                {
                        System.out.println(e.getMessage());
                }

        }
}
public class Multithread {

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

```java
            first f= new first();
            f.start();
            // TODO Auto-generated method stub

    }

}
```

OUTPUT

```
First Thread generated is 20
Second Thread: Square of number is 400
Third Thread:  Cube of number is 8000
First Thread generated is 19
Second Thread: Square of number is 361
Third Thread:  Cube of number is 6859
First Thread generated is 28
Second Thread: Square of number is 784
Third Thread:  Cube of number is 21952
First Thread generated is 27
Second Thread: Square of number is 729
Third Thread:  Cube of number is 19683
First Thread generated is 21
Second Thread: Square of number is 441
Third Thread:  Cube of number is 9261
```