## **Program 8**

Write a Java program that implements a multi-thread application that has three 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.

```
import java.util.Random;
class Square extends Thread
       int x;
       Square(int n)
               x = n;
       public void run()
               int sqr = x * x;
                System.out.println("Square of " + x + " = " + sqr);
}
class Cube extends Thread
       int x;
       Cube(int n)
               x = n;
       public void run()
               int cub = x * x * x;
               System.out.println("Cube of " + x + " = " + cub);
}
class Number extends Thread
       public void run()
               Random random = new Random();
               for(int i = 0; i < 5; i++)
                       int randomInteger = random.nextInt(100);
                       System.out.println("Random Integer generated: " + randomInteger);
                       Square s = new Square(randomInteger);
                       Cube c = new Cube(randomInteger);
                       c.start();
                       try {
                               Thread.sleep(1000);
                           }
```