## Program 7

7. 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.

## **Program code:**

```
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 Rnumber extends Thread
     public void run()
           Random random = new Random();
           for(int i =0; i<5; i++)
                 int randomInteger = random.nextInt(10);
                System.out.println("Random Integer generated : " +
randomInteger);
                Square s = new Square(randomInteger);
```

```
s.start();
                  Cube c = new Cube(randomInteger);
                  c.start();
                  try
                 {
                      Thread.sleep(1000);
                 catch (InterruptedException ex)
                      System.out.println(ex);
                  }
           }
     }
public class ThreadP
     public static void main(String[] args)
      {
           Rnumber n = new Rnumber();
           n.start();
     }
}
```