NAME: Ramya Ramesh

USN: 1BM19CH038

**WEEK 11 EXTRA PROGRAM = 2**

QUESTION: Develop a multithreaded Java program to create three threads. First thread generates

random integer for every second and if the value is even, second thread computes the

square of number and prints. If the value is odd, the third thread will print the value of

cube of number.

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 Number 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) {

Square s = new Square(randomInteger);

s.start();

}

else {

Cube c = new Cube(randomInteger);

c.start();

}

try {

Thread.sleep(1000);

} catch (InterruptedException ex) {

System.out.println(ex);

}

}

}

}

public class Program2 {

public static void main(String args[])

{

Number n = new Number();

n.start();

}

}

OUTPUT:

