// import the scanner class and the Random class from the java util package

import java.util.Random;

import java.util.Scanner;

public class CountingDigit {

public static void main(String[] args) {

//declare an initialize an array that will hold the frequency of the random numbers

int count[] = new int [10];

// create a Random object called digit

Random digit = new Random();

// use a for loop to create 100 random number and using those numbers to increament

// the indix of that digit inside the array which will give us frequency for each digit

for ( int i = 0; i < 100; ++i){

++count[digit.nextInt(10)];

}

//Display a header using the Tab

System.out.println("Frequency of each Random Number");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Digit#\t\tFrequency");

// use a for loop to display the frequency of each random number from 0 to 9

for (int j = 0; j < count.length; ++j){

System.out.println(j+"\t\t"+ count[j]);

}

}

}