Lab Assessment 6

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| Assessment6Runner.java |
| **package** Assessments;  **import** java.util.Scanner;  **public** **class** Assessment6Runner {  **public** **static** **void** main(String[] args) {  Scanner s = **new** Scanner(System.***in***);  System.***out***.println("How many random numbers should be generated? ");  **int** count = s.nextInt();  System.***out***.println("What is the number of values for each random draw? ");  **int** range = s.nextInt();  Assessment6 a = **new** Assessment6(count, range);  a.generateRandomNumbers();  System.***out***.println();  System.***out***.println(a);  }  } |
| Assessment6.java |
| **package** Assessments;  **import** java.util.ArrayList;  **public** **class** Assessment6 {  Integer[] array;  ArrayList<Integer> arrayList;  **int** range;  **int** count;  **public** Assessment6() {  **this**(0, 0);  }  **public** Assessment6(**int** c, **int** r) {  setCount(c);  setRange(r);  initializeArray();  }  **public** **void** setRange(**int** r) {  range = r;  }  **public** **void** setCount(**int** c) {  count = c;  }  **public** **void** initializeArray() {  array = **new** Integer[range];  arrayList = **new** ArrayList<Integer>();  **for**(**int** i = 0; i < range; i++) {  array[i] = 0;  arrayList.add(0);  }  }  **public** **void** generateRandomNumbers() {  **for**(**int** i = 0; i < count; i++) {  **int** n = (**int**) (Math.*random*() \* range);  array[n] += 1;  arrayList.set(n, arrayList.get(n)+1);  }  }  **public** String toString() {  String result = "";  **for**(**int** n = 0; n < range; n++) {  String entry = n + " " + array[n];  //Add spaces  **while**(entry.length() < 7) {  entry = entry.replaceFirst(" ", " ");  }  result += entry + "\n";  }  **return** result;  }  } |