JAVA Lab 3

1. Write a complete Java program that will test the statistical distribution of Java’s random number generator.   
     
   Your program will generate a random number from 0 - 4 five hundred times. Your program must count each time a specific number is generated. After 500 random numbers, print the statistics.

/15

**Sample execution:**

Random number stats

After 500 rolls, the stats are:

The number 0 was rolled 178 times.

The number 1 was rolled 115 times.

The number 2 was rolled 104 times.

The number 3 was rolled 87 times.

The number 4 was rolled 6 times.

* Remember, because you are generating random numbers, your counts will be different every time.

Make sure you take the time to do the problem analysis first. You do not need to submit your analysis or any pseudo-code, but you will have better success if you do the analysis first.

Submit your .java code and screenshot showing the code and console output via Blackboard.