

Programming Assignment 5

Due Oct 27, 2020 by 11:59pm **Points** 8 **Submitting** a file upload

1. Generate random number txt file (2 points)

Use the random module to generate 100 random numbers (between 1 and 10). Remember to generate a random number, use

```
import random

random.randint(a, b) #where a is the number to start on, and b is the number to end on
```

After you generate these values, store them to a file (named RandomNumbers.txt) with a new line between each number.

2. Histogram of the numbers (2 points)

Read in the file you generated in part 1 (or if you did not get that working, a manually generated file)

Similar to the previous homework assignment, generate a dictionary of the numbers where the key is the number, and the value is the number of times that number was seen in the file.

3. Generate CSV file with the data (4 points)

Using the dictionary generated in the previous problem (or a manually generated one if you did not get the last part working), generate a csv file (named NumberCounts.csv) with the numbers and their counts (and column headers). Note, CSV files have columns separated by commas, and rows separated by new lines

Some Rubric (4)

Criteria	Ratings			Pts
1)	2 pts Full Marks	1 pts Half marks	0 pts No Marks	2 pts
2)	2 pts Full Marks	1 pts Half marks	0 pts No Marks	2 pts
3)	4 pts Full Marks	2 pts Half marks	0 pts No Marks	4 pts
				Total Points: 8