

Economic Network Analysis

Problem Set 1

1. Download and install a Python editor
 - a. Make sure your system has some version of Python
2. Write code to generate a random number between 0,1
3. Print the random number
4. Generate a list of 100 random numbers
5. Compute and print the mean, standard deviation, and coefficient of variation of the list of random numbers
6. Generate a list of 1000 random numbers
 - a. Save the list of numbers as “randoms.txt” with one number in each line
7. Load the “randoms.txt”
 - a. While write the random numbers into a Python list
8. Multiply each number in the list of randoms by 3
9. Create a python dictionary
 - a. Use the integers from 1 to 1000 as key
 - b. Assign a random number between 0 and 1 as a value to each of the keys
10. Write the dictionary as “values.txt” with each key-value pair in one line, with key-value pair separated by comman (e.g. key,value).