Assignment 3

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Software: Jupyter Notebook 5.7.4 - Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]

Source code file – Assignment-3.py

Requirements:

Python libraries required: numpy, math, mathplotlib (for plotting the graph)



Open Python IDE terminal and run - pip install matplotlib

Implementation Distribution:

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Enter 1. WeiBull Distr	ribution, 2. Geometric Distribution,	3. Exponential Distribution:
Enter option 1/2/3:		

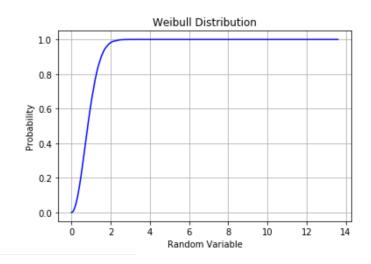
- WeiBull Distribution
- Geometric Distribution
- Exponential Distribution

1. WeiBull Distribution:

Sample inputs: Alpha = 1 & Beta = 2

Enter 1. WeiBull Distribution, 2. Geometric Distribution, 3. Exponential Distribution:

Enter option 1/2/3: 1 Enter Alpha value: 1 Enter Beta value: 2



Output file generated: weiBull_RandomSeq.txt, weiBull_CdfSeq.txt, weiBullPlot.pdf

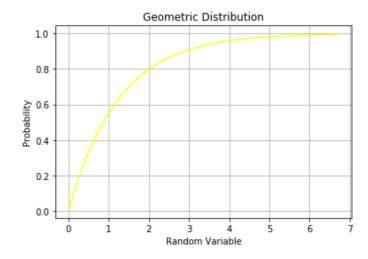
2. Geometric Distribution:

Sample input of q = 0.45 (q should be less than 1)

Output file generated: geo_RandomSeq.txt, geo_CdfSeq.txt, geoPlot.pdf

Enter 1. WeiBull Distribution, 2. Geometric Distribution, 3. Exponential Distribution:

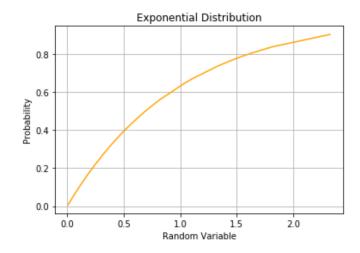
Enter option 1/2/3: 2 Enter q value: 0.45



3. Exponential Distribution:

Sample Input of Lambda = 2

Enter 1. WeiBull Distribution, 2. Geometric Distribution, 3. Exponential Distribution: Enter option 1/2/3: 3
Enter Value for Lambda:2



Output file generated: exp_RandomSeq.txt, exp_CdfSeq.txt, expPlot.pdf