**Coding Assignment 4: Testing Central Limit Theorem**

In this assignment, please follow the instructions below to quantitatively test central limit theorem in Jupyter notebook, based on a uniform distribution on [0, 1]. You can use all Python’s built-in functions, math, matplotlib and numpy modules.

1. The script will have the following parameters
   1. Integer n (start with value 5; will test different values later on): sample size. That is, each time, n numbers will be randomly drawn from the uniform distribution on [0, 1]
   2. Integer t (let t be 10000 for the entire assignment): the number of times the sampling process will be performed
   3. Integer b (let b be 100 for the entire assignment): the number of bins for histogram
2. The script will provide the following outputs:
   1. The mean of the sampling mean, aka, grand mean.
   2. The sample standard deviation of the sample mean.
   3. Normalized histogram with b bins.
3. Compare your answer to 2a with theoretical mean and compare your answer to 2b with theoretical standard error.
4. Repeat 1-3 for n = 25 and 125, respectively. Based on your finding, what conclusions can you draw?