## **Intermediate Statistics Assignment Question**

- 1. Why we have n-1 in the denominator in the sample variance?
  - We use n-1 in the denominator so that we can have the population (N) variance and sample (n) variance approximately equal/same.
  - If we try to use n the population (N) variance and sample (n) variance may have vast difference
- 2. What is the relationship between mean, median, mode for left and right skewed log normal distribution?
  - **Left skewed** mean > median > mode
  - **Right skewed** mean < median < mode