**ASSIGNMENT 2 - Applying Statistics using Scipy**

**Questions To Add your Responses :**

1. Explain what is the Central Limit Theorem to a non-technical audience?

## What is Sampling and following techniques required to gather sample data?

1. Describe the Hypothesis Testing and why do we conduct it?
2. Define and briefly elaborate Central Tendency using measures with examples?
3. What’s a ROC Curve? How do you differentiate Point Estimate and Confidence Interval Estimate?
4. What’s the difference between Correlation and Covariance in Statistics? What are the goals of A/B Testing?
5. How would you build and test a metric to compare two user’s ranked lists of movie/tv show preferences?
6. Find the probability of P(x<400) given that mean is = 1000 variance is =100
7. Provide a proper description as to when to apply Ztest, t-test, Chi-Square and annova, with examples.

**Explain the questions and problems in your approach while solving them. No copy paste allowed. Description of the outcome is really important to get an understanding better.**