STATISTICS WORKSHEET-1

1. A)TRUE
2. A) Central Limit Theorem
3. B) Modeling bounded count data
4. D) All of the mentioned
5. C) Poisson
6. B)False
7. B) Hypothesis
8. A)0
9. C) Outliers cannot conform to the regression relationship
10. Normal distribution is a probability distribution that is symmetric about the mean and showing that data near the mean are more frequent in occurrence than data far from the mean.

11. There are 3 ways handling missing data

   - Zero Replacement: In this replace the missing value with zero irrespective of everything.

   - Min or Max Replacement: Replace the missing value with the minimum or maximum value of a feature.

   - Mean/Median/Mode Replacement: Replace missing value with mean or median or most frequent feature value.

     The best imputation techniques is Mean/Median/Mode Replacement method bcoz it takes account of all values to calculate the average and is not affected by very large or very small value.

12. A/B testing in its simplest sense is a test on two variants to see which performs better based on a given metric. In this two consumer groups are exposed to two different versions of the same thing to see if there is a significant difference in result.
13. Mean imputation is typically considered not good practice since it ignores feature correlation. The process of replacing null values in a data collection with the data's mean. Mean imputation decreases the variance of our data while increasing bias.
14. Linear regression analysis is used to predict the output value of a variable based on the input value.

15. Inferential and descriptive