Assumptions in Anova:

1. Normality of sampling distribution of mean: The distribution of sample mean is normally distributed, i.e, it follows a gaussian distribution.

2. Absence of outliers: The outlying score needs to be removed from the dataset.

3. Homogeneity of variance: Population variance in different levels of each independent variable are equal.

Notation: = = , If we are considering three levels in an independent variable

Independent variable means one variable will not impact the other.

4. Samples are independent and randomly selected