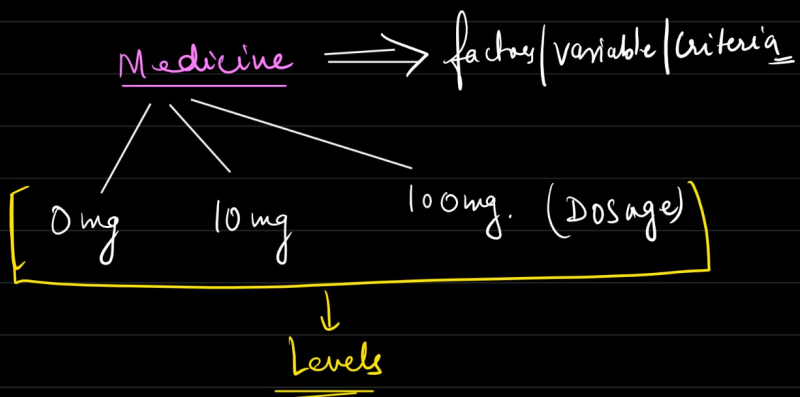
ANOVA (Analysis of Variance) and its Assumption.

Defn : ANOVA is a statistical method used to compare the means of 2 or more groups

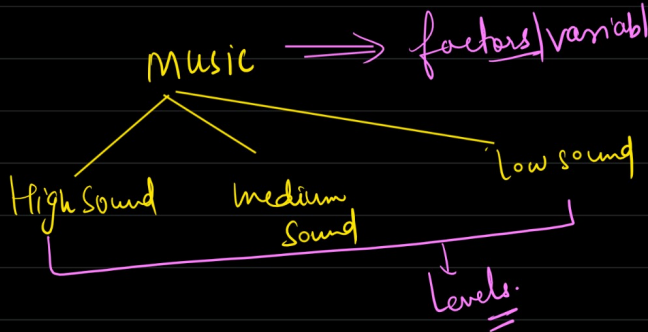
Anova Terms

* Factors / Variables / criteria
* Levels.

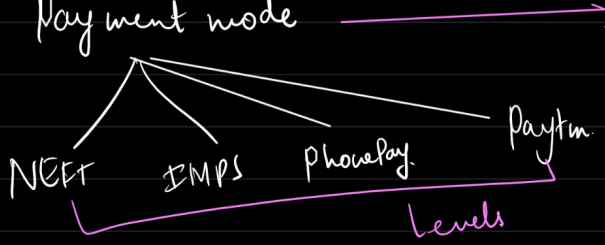
ex-1



ex-2



ex-3



* Assumptions of ANOVA

→ The population from which samples are drawn should be Normally distributed.

→ The sample should be independent of each other/random.

→ Absence of outlier.

→ Homogeneity of variance :- Homogeneity means that

the variance among the groups should be approximately equal.

s_1 s_2 s_3

$s_1^2 = s_2^2 = s_3^2$

	Pop	Sample
Stddev	σ	s
Var.	σ^2	s^2