

Glossary

1. **Distribution free tests:** These are based on very mild and fewer assumptions.
2. **$F_n(x)$** = Empirical cumulative distribution function of a random variable X .
3. **$F(x)$** = Cumulative distribution function of a random variable X .
4. **Run :** A run is defined as a sequence of letters of one kind surrounded by a sequence of letters of the other kind and the number of elements in a run is usually referred to as the length(L) of the run”.
5. **Length of run(L) :** Number of letters of one kind in a sequence of letters say, in sequence $x_1, x_2, y_1, y_2, y_3, y_4$; here, we have in order, a run of $x = 2$ (i.e. $L = 2$), a run of $y = 4$, (i.e. $L = 4$).
6. **Ranks:** It refers to the data transformation in which numerical or ordinal values are replaced by their rank when the data are sorted.
7. **Goodness of fit :** It is to test the hypothesis that the sample observations x_1, x_2, \dots, x_n is from specified distribution F_0 against the alternative that it is from some other distribution
8. **Parameter :** The constant of a population.
9. **Statistic :** Function of the sample observations or it is a sample constant
10. **Median :** It is the middle most value in the given set of orderly data.