

### 1. What is Statistics?

Statistics is not only the analyzing the data, which also includes data collection, interpretation and presentation with the help of mathematical computations.

### 2. Why we need Statistics?

When we have the problems, we can't guess the solution and blindly say it will work. By using statistical techniques, we can provide the proven solution which everybody can understand easily.

Statistics can be used to derive meaningful insights from data by performing mathematical computations on it.

In Statistics, we have several statistical functions, principles and algorithms which can be implemented to analyze raw data, build a Statistical Model and predict the result.

### 3. Types of Statistics?

A. **Descriptive Statistics:** Descriptive Statistics makes use of Numerical methods and Visualization techniques to summarize the sample data. As we are summarizing the data in one group(sample), there is no uncertainty because you are describing only the people or items that you measure.

B. **Inferential Statistics:** When you want to draw inferences, conclusions, estimate or generalize statement about the population data based on the sample data, then will go for Inferential Statistics.