# MATHEMATICS PRESENTATION-1

**TOPIC: MEASUREMENT OF CENTRAL TENDENCY** 

BY: L VINAY RAJIV REDDY

## **MEAN**

Mean: Simply to do average of data values.

Eg: Data set =[1,2,3,4,5]

Formula is Mean = (sum of all the elements / total no. of elements)

Sum = 15, no. of elements = 5

Mean = 15/5 = 3



## Mode

- Mode: Data value which occurred for most number of times.
  - Eg : Data set =[1,1,2,3,5,94,47,5,4,8,9,1]
  - The most no. of time occurred element is 1 (i,e 3 times)

### Median

- Median: Data value which is exactly in the middle of the sorted data set, if there are 2 values, then we go for average of those 2.
  - Eg 1 : Dataset = [6,1,2,3,5,7,4]
  - The element exactly in the middle after sorting it is 4
  - So median =4
  - Eg 2: Dataset = [1,2,3,4]
  - There are 2 elements in the middle, they are 2,3
  - So median is average of those 2 numbers, I,e 2.5
  - So median =2.5



### STANDARD DEVIATION & VARIANCE

- Standard Deviation:
- It is one more statistical term used to measure central tendency.
- The more std. dev is the wider is the values
- The lesser the value of std.dev is the closer the values
- Variance:
- Also indicates same as Std.Dev how the values are situated.
- Variance = Square of Std. Dev