

## **Take Home Assignment 02**

⇒ **Collect the height (in cm)/ weight (in kilogram)/ CGPA (in the scale of 4.00)/ age (in year)/ salary of parents (in thousand) of any 50 students. Then find the followings.**

1. Sketch statistical graphs.
2. Find arithmetic mean, geometric mean and harmonic mean.
3. Estimate mode from both analytical calculation and histogram.
4. Estimate median, quartile (any), decile (any) and percentile (any). Also, show the central values in the OGIVE.
5. Find mean deviation and co-efficient of mean deviation of various bases. Compare the measures and comment about the measures.
6. Compute standard deviation and co-efficient of the standard deviation. What is the value of variance?
7. Calculate first four raw moments and convert them to central moments.
8. Find the co-efficient of skewness and kurtosis. Show the coefficients graphically and make your comments about them.

⇒ **Collect the height (in inch) and weight (in kg) of 10 of your friends and make a data table for the followings.**

1. Compute correlation coefficient and make a comment.
2. Find regression lines of height on weight and weight on height. Which property is dominant?
3. Graphically find the weight of the students corresponding to the height 65 inches. Also, find the height of the students corresponding to the weight 60 kg by the graphical method.