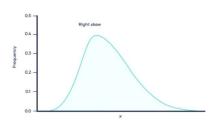
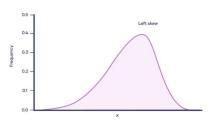
#### **SHAPE OF DATA:**

- Skewness and Kurtosis are statistics that describe shape and symmetry of the distribution
- For normal distribution, skewness is 0 and kurtosis is 3

#### 1. SKEWNESS:

- Skewness is a measure of the asymmetry of a distribution. A distribution is asymmetrical when its left and right side are not mirror images.
- A distribution can have right (or positive), left (or negative), or zero skewness.
- A right-skewed distribution is longer on the right side of its peak, and a left-skewed distribution is longer on the left side of its peak
- Skewness > 0 then Right Skewed / Positive
- Skewness < 0 then Left Skewed / Negative



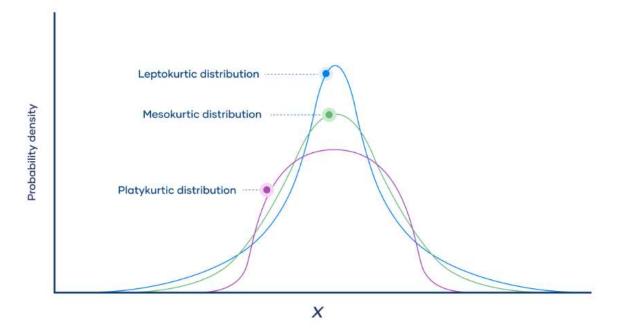


Mean>Median>Mode
Mean<Median<Mode

Mean=Median=Mode

#### 2. KUTOSIS:

- Kurtosis is a measure of the tailedness of a distribution.
- If kurtosis>3 = Thinner tail and Higher Peak Leptokurtic
- If kurtosis=3 P= Mesokurtic
- If kurtosis<3 = Thicker tail and Lower Peak Platykurtic



### **TYPE OF SAMPLE:**

- 1. FINITE SAMPLE
- 2. INFINITE SAMPLE

### **SAMPLING METHODS:**

- 1. PROBABILITY SAMPLING
- 2. NON PROBABILITY SAMPLING

## **TYPES OF PROBABILITY SAMPLING:**

- 1. SIMPLE RANDOM
- 2. SYSTEMATIC
- 3. STRATIFIED
- 4. CLUSTER
- 5. AREA

# **TYPES OF NON PROBABILITY SAMPLING:**

- 1. ACCIDENTAL / CONVINENCE
- 2. QUOTA SAMPLING
- 3. PURPOSIVE SAMPLING
- 4. SNOWBALL / REFERAL SAMPLING

### **HYPOTHESIS:**

- 1. NULL HYPO HO
- 2. ALTERNATE HYPO H1

# **T-TESTS**:

- 1. ONE SAMPLE T-TEST
- 2. TWO SAMPPLE/INDEPENDENT
- 3. PAIRED T-TEST