$C-\underline{Mode}$ : Mode is one of the measures of central tendency of data analysis in statistics, which are values by which the central value of a set of data can be described The central value of a set of data, where the mode is expressed by the number of repeats in the data set, and it depends mainly on the frequency in the sample.

## 1- Calculation of the Mode for unclassified data:

It is the value that described as the greatest frequency.

For example\\ calculate The mode of the following data?

$$[5,2,5,10,2,2]$$
 Mode = 2

## 2- Calculation of the mode of the classified data:

Mode = 
$$L_1 + (\frac{d_1}{d_1 + d_2}) * c$$

Whereas:

 $L_1$  = Minimum modal class , c = Category length

 $d_1$  = It is the result of subtracting the frequency of the modal class from the frequency of the class before it

 $d_2$  = It is the result of subtracting the frequency of the modal class from the frequency of the class after it

Class	f	
150 - 159	8	
160 - 169	12	
170 - 179	15	The model class has the highest frequence
180 - 189	9	The model class has the ingliest frequency
190 - 199	6	

L = 170 ,  $d_1 = 15 - 12$  ,  $d_2 = 15 - 9$  , C = 10

Mode = 173.33

## $H.W \backslash \backslash$

1- Calculate the mode for the weights of the following a group of rice sacks:

the weight (kg)	number of bags
45	8
50	11
55	7
60	10
65	12
70	9
75	8

2- Calculate the measures of central tendency (mean, median, mode) for the following data?

Class	f
60-62	5
63-65	15
66-68	45
69-71	27
72-74	8