

# ASSIGNMENT 3

CS21BTECH11020

## 1 EXAMPLE 14 (STATISTICS)

## Plotting the data from Table 1.1.2

1.1. Find the mode of the following marks (out of 10) obtained by 20 students.

4 6 5 9 3 2 7 7 6 5 4 9 10 10 3 4 7 6 9 9

TABLE 1.1.1

**Solution:** Since we know *mode* is the value that appears most often in a set of data values.

From Table 1.1.1, We have Distribution of data is as follow:

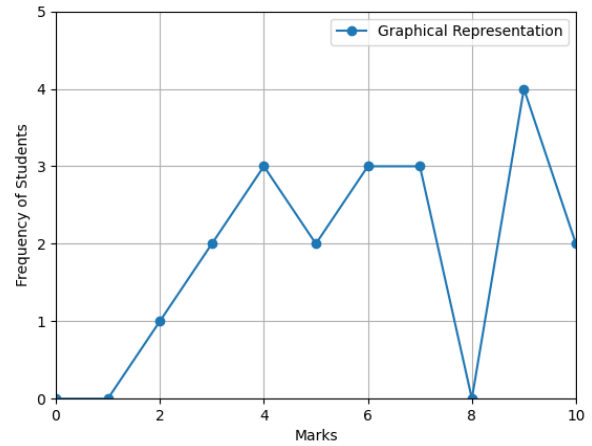


Fig. 1.1.1. From graph  $x = 9$  has maximum frequency

Clearly, From Graph 1.1.1,  $x = 9$  has maximum frequency of occurrence.

Therefore,

$$\text{mode} = 9 \quad (1.1.1)$$

Marks Obtained (out of 10)	Frequency of Student
0	0
1	0
2	1
3	2
4	3
5	2
6	3
7	3
8	0
9	4
10	2

TABLE 1.1.2