

Exercise No: 6

A] Consider following data of numbers of study hours in week and marks obtained by 20 students.

StudentNo	StudyHours	Marks
1	10	56
2	12	78
3	4	57
4	6	89
5	8	60
6	9	54
7	18	70
8	9	65
9	20	78
10	22	80
11	17	62
12	16	89
13	2	73
14	3	50
15	15	61
16	18	78
17	21	60
18	7	51
19	11	74

Q1. Calculate mean and mode of studyHours in above table.

Q1. Calculate covariance between StudyHours and marks.

Q2. Calculate standard deviation of Marks obtained by students.

Q3. Calculate variance of StudyHours from above data.

Q4. Determine the relation between studyhours and marks obtained by students using linear regression.

B] Predict the marks of students who study for 14 hours in week.

- 1) During the 10 weeks of a session, the marks obtained by 50 students, taking the Computer Programme course are given below:

Ramesh	58	59	60	54	65	66	52	75	69	52
Suresh	87	89	78	71	73	84	65	66	56	46

- Calculate mean to determine, who is better scorer- Ramesh or Suresh?
- Calculate standard deviation.
- Calculate Coefficient of variation to determine which student is more consistent. ?