

## Lab 5

### Unit 7 Correlation and regression analysis

1. The data on sales and promotion expenditure on a product are given below

Sales (Rs lakhs)	173	196	441	232	121	151	224	216	134	135
Promotion expenditure Rs(000)	41	54	11	16	41	34	23	35	10	40

- Find the relationship between sales and promotion expenditure and interpret it.
  - Draw scatter diagram of sales and promotion expenditure
  - Estimate coefficient of determination and interpret it
  - Estimate the promotion expenses to generate the sales of 230 lakhs rupees
2. The following table represents the data size and efficiency of computer

Data size	10	12	13	12	16	15
Efficiency	40	38	43	45	37	43

- Find the relationship between data size and efficiency and interpret it.
- Draw scatter diagram of data size and efficiency
- Estimate coefficient of determination and interpret it
- Estimate the efficiency when the data size is 13