Experiment - 11

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* **Aim** :- To obtain the coefficient of variation.

* **Experiment** :- Compute the coefficient of variation from the given data.

A	B
85	72
20	4
62	15
28	30
74	59
5	15
69	49
4	27
13	26

* **Theory and Formula** :- Coefficient of variation is the ratio of the standard deviation to the mean times 100. It is a measure

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of relative variability. We can denote it by CV. CV is particularly useful when comparison between two different surveys need to be made that have different measures or values.

Formula :-

$$CV = \frac{\sigma}{\bar{x}} \times 100$$

where σ = Standard Deviation
$\bar{x}$ = Mean

Lower CV means more consistency of data and Higher CV means more variability.

* Result :- Coefficient of variation (A) = 75.92
Coefficient of variation (B) = 64.17

On the analysis of result, we can say that B is more consistent than A.