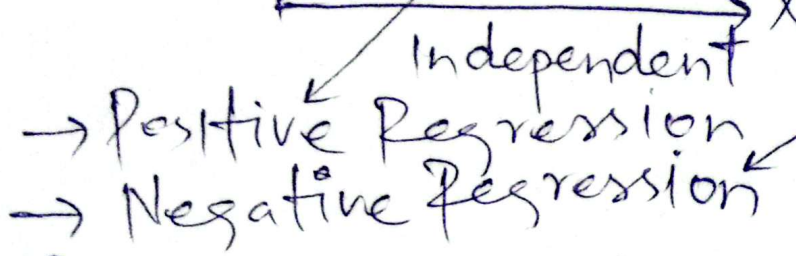


Regression:- statistical method that helps us understand and predict the relationship b/w variables.

and predict the reactions of a lifting data set

→ Independent variable:- used to predict or explain changes in dependent variable.



→ Negative Regression

Equation :- $y = mx + B \rightarrow$ Intercept.

dependent \rightarrow slope of line

→ Pizza Pricing Prediction Sum 8.11

Years(x)	Price(y)	mean(x)	mean(y)	Deviation	Deviation	P of D	af P of D	f
2018(i)	1200	2.5	1500	-1.5	-300	150	1000	2
2019(ii)	1400	2.5		-0.5	-100	50		0
2020(iii)	1600			0.5	100	50		0
2021(iv)	1800			1.5	300	150		2

$$\text{Calculate } m = \frac{\text{Sum of } P \text{ of } (D)}{\text{Sum of square of } D(x)}$$

$$= \frac{1000}{5} = 200$$

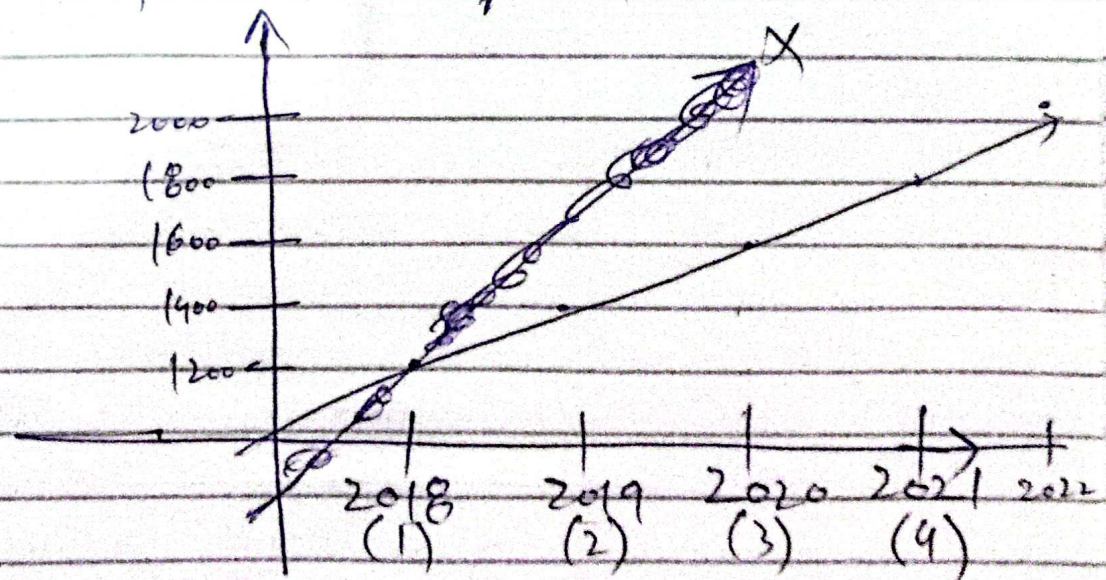
$$\text{Calculate } b = \text{Mean of } Y - (m \times \text{Mean of } X)$$

$$= \frac{1600}{5} - (200 \times \frac{297.5}{5})$$

$$= 1000 - 1197.5$$

$$= -197.5$$

$$y = 200x - 1197.5$$



m
of (X)