SIMPLE LINEAR REGRESSION

3 Objective

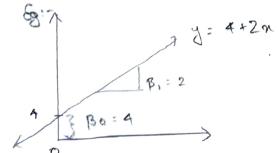
In To establish relationship Hw two voriables Eg: x xy or x 1/2 y

2. Fore cost new observations

Eg: what will be sales for next quarter

> Vordables Independent
(2)
Dependent

y = a+bx } y = Bo + Bix
y = mx+b } y = Bo + Bix



 $y = 4+2\pi$ - Intercept => $y(\pi = 0) = 4 = \beta_0$ $y = 4+2\pi$ - Slope => coeff $\pi = 2 = \beta_0$

SIMPLE LINEAR REGRESSION MODEL

y= Bo+ BIN + E Jerror

le se E= Ee2 . Such that E is minimum

MULTIPLE REGRESSION MODEL

 $y = m_1 x_1 + m_2 x_2 + m_3 x_3 + \dots + m_n x_n + c$

Multiple regussion is Linear regussion with more features 't'