- \* Capital Stranture Theories.

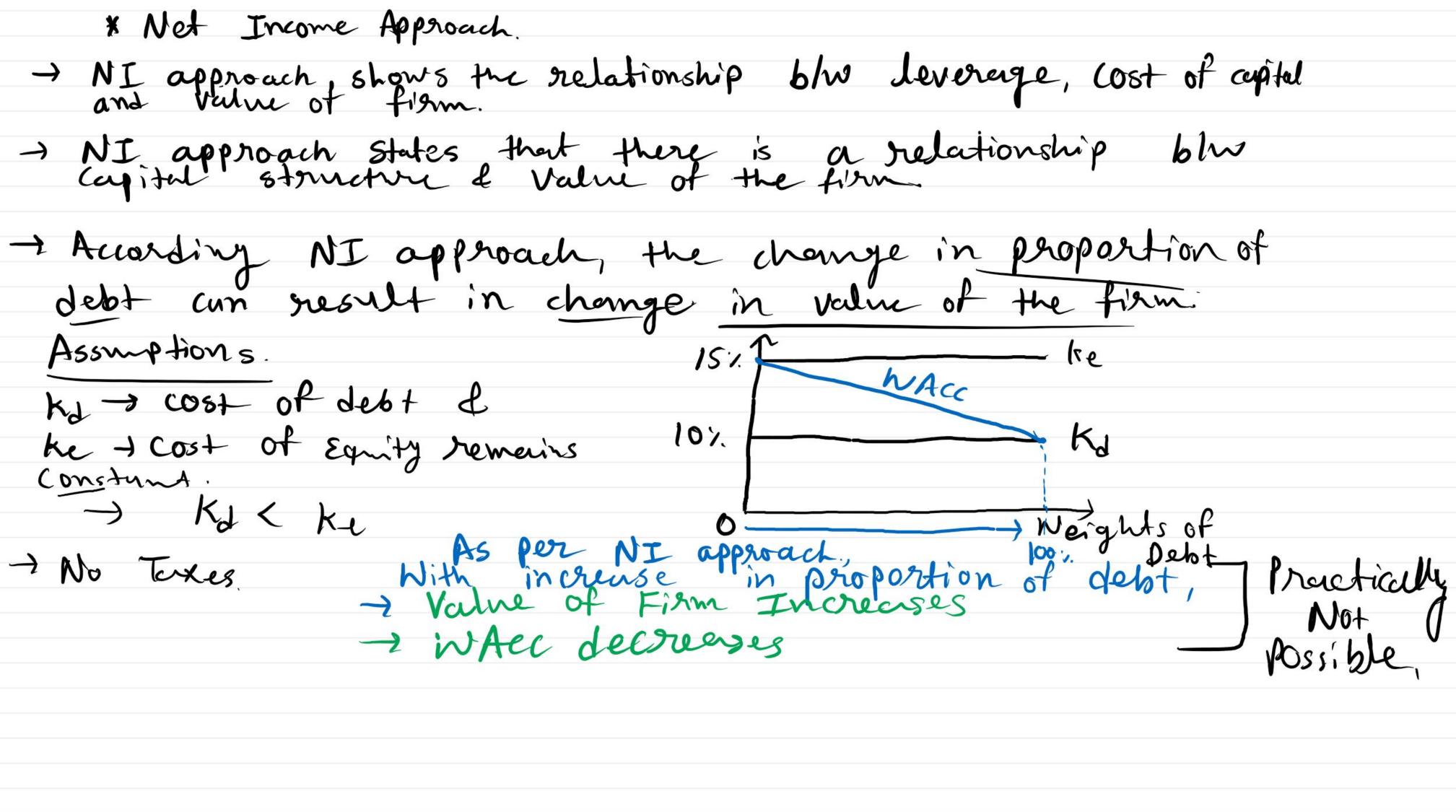
- -> Capital Structure Includes a proportion of Debt and Equity.

  -> Whether the capital Structure is Optimum or Not?

  -> Optimum Capital structure maximizes the Value of the
- -> can a change in proportion of debt and equity maximizes the value of firm or not?

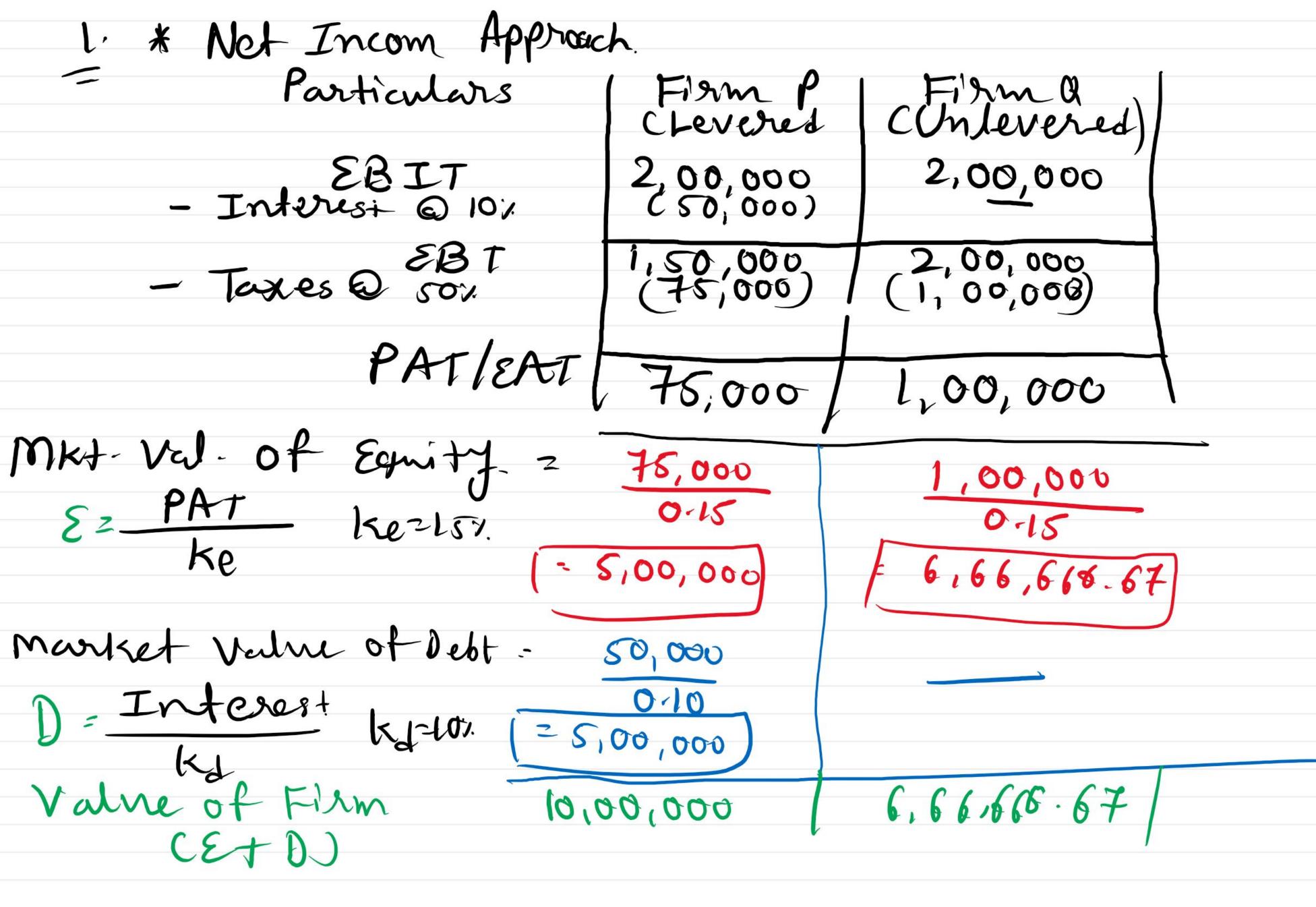
  -> Should a firm borrow in the terms of debt, Yes or No. 1.7 res, nout mucin. 9

Capital Structure Theories Capital Structure Relevance Theory. Capital structure Irrelevance Theory. -> Net Income Approach (INI) -> Modigliani & Miller Approach (M-M) -) Net Operating Income Approach (NOI)



Calculation as Per NI	Approach.
CE)	Profit After Taxes (EAT/PAT) Equity capitalization Rate Cke)
Moorket Value of Debt=	Interest Amount
CD)	Kal
mouret Value of Firm	2 Debt + Equity.

\* Net Operating Approach CNOI) -> This theory is exactly opposite of NI approach, According to NOI, an increuse in proportion of debt will increase the risk of shoreholders In order to bear this risk, Shareholders will usk more return - so, if proportion debt increuses, ke also increuses Calculations as per NOI. Value of Unlevered Filam = EBIT (1-t) (Conly Equity) Debt x Value of Levered Firm (Exquity + Debt) = value of Debt (1-t) Unlevered + Firm



1. X Net Operating Approach (NOI) Value of Unlevered Firm = EBIT (1-t) = 2,00,000 (1-0.5) [= 6,66,66.67] Valve of Levered - Valine of Unlevered + Deht CI-to Fish (p) = 6, E6, 666.67 + 5,00,000 (1-0.5) = 6.66, 066-67 + 2,50,000 [= 9,16,666-67

Net Income Approach Alpha (Levered) CUnseveres: Particulars EBIT (167. x 12,00,000) 1,42,000 1,92,000 - Interest (127. x 5,00,000) 60,000 1,32,000 EBT 1,92,000 Taxes @ 50 y. (96,000)(66,000)96,000 EAT 66,000 Value
Mkt 10f Equity: PAT 66,000 96,000 4,40,000 - 6,40,000 MKt. Val. of Debentures = Int. 60,000 (= 5,09000 Value of Flam (Debt + Egnity) 16,40,000 9,40,000

- \* Not Operating Income Approach
- \* Value of the Unlevered Firm (Beta) = EBIT (1-t)

  Ke
  - 1.92,000 (1-0.5) 0.15

= 6,40,000

\* Value of Levelted Film (Alpha) = Value of Unlevered + Debt. (1-t)

= 6,40,000 + (5,00,000) (1-05)

- 6,40,000 + 2,50,000

( 3.900 U

\* Using NoI Approach Calculate WACC

Value of Equity = 6,40,000 (Unlevered Firm) 
$$\rightarrow ke = 15 \times 100$$

Value of Debi = 5,00,000  $k_0 = 12 \times 100$ 

We =  $\frac{6,40,000}{11,40,000} = 0.94 = 6 \times 11,40,000$ 

:. WACC = W\_1 k\_1 + Weke  
= 
$$(0.44 \times 6)$$
 +  $(0.86 \times 15)$   
Cancel =  $2.64 + 8.4 = 11.04$  > WACC as per  
Qne. No.  $3,4,5,9 + 10$