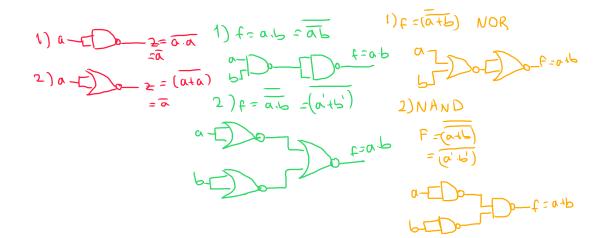
A-) Türetilmis Kupılarla Temel Losik Kapıların -Tomleyen (NOT) Ve (And) Veyn (OK)



- B) Indir gennis itadelerin agni tin kapilarla geraklestirilmosi
  - i) Forpinter Toplami NAND (Tomleyen Le) Tasarimi

$$f(x_{|y|},z) = xyz + xy + xz$$

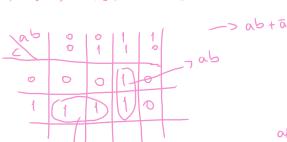
$$f = \sum \pi x_i$$

$$f = \pi \pi x_i$$

$$f = \pi \pi x_i$$

$$f = \pi \pi x_i$$

of f(a,b,c) = abc tabe tabetabe



ac

$$\frac{\overline{f}(a,b,c) = \overline{a} \cdot c + ab}{\overline{f}(a,b,c) = \overline{a} \cdot c \cdot \overline{ab}}$$

$$\frac{\overline{f}(a,b,c) = \overline{a} \cdot \overline{ab}}{\overline{f}(a,b,c) = \overline{a} \cdot \overline{ab}}$$

Amaç 0602 olmasi

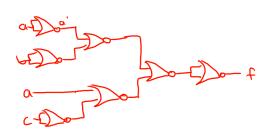


ii) Çarpımlar toplamı NOR Tasarımı (Tümkiyen veya)

$$\frac{f = \xi \pi_{x}}{\pi_{x}} = \overline{\xi}$$

$$\bar{F} = \tilde{z} \tilde{z}_{x}$$

£ 1 Dot



## iii) Toplanlar garpini NOR tusarini

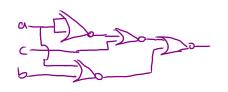
Tveyor

F= (x+3+2).(x+y) (z+y)

$$f = TT \leq x; \qquad f(\alpha, b, c) = (\alpha + b)(\overline{\alpha} + c)$$

$$\overline{f} = T \leq x; \qquad f(\alpha, b, c) = (\alpha + b) + (\overline{\alpha} + c)$$

$$\overline{f} = Z \leq x; \qquad f(\alpha, b, c) = (\overline{\alpha} + b) + (\overline{\alpha} + c)$$



## IV) Toplanlar garpini NAND Tusarini

$$f = \pi \pi \overline{x} \longrightarrow f = \pi \pi \overline{x} = \overline{\alpha + 5} \cdot (\overline{\alpha + c}) = \overline{\alpha + b} \cdot \overline{\alpha + c} = \overline{\alpha + b} \cdot \overline{\alpha + c}$$

