Programmable Logic Devices (PLD)

PLD's consists of array of AND gales and on array of or gotes.

* Unlike Integraled circuits (IC) which consists of logic gales and have a fixed function.

A PLD has an undefined function at the time of manufacture.

& Before the PLD Car be used in a circuit, it must be programmed (reforfiqued) by unny a specifized program.

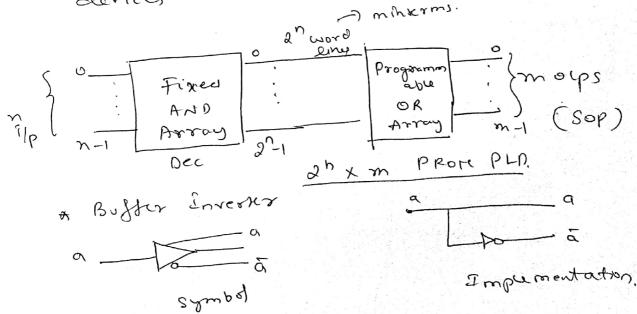
+ Mere are three types of PLD's.

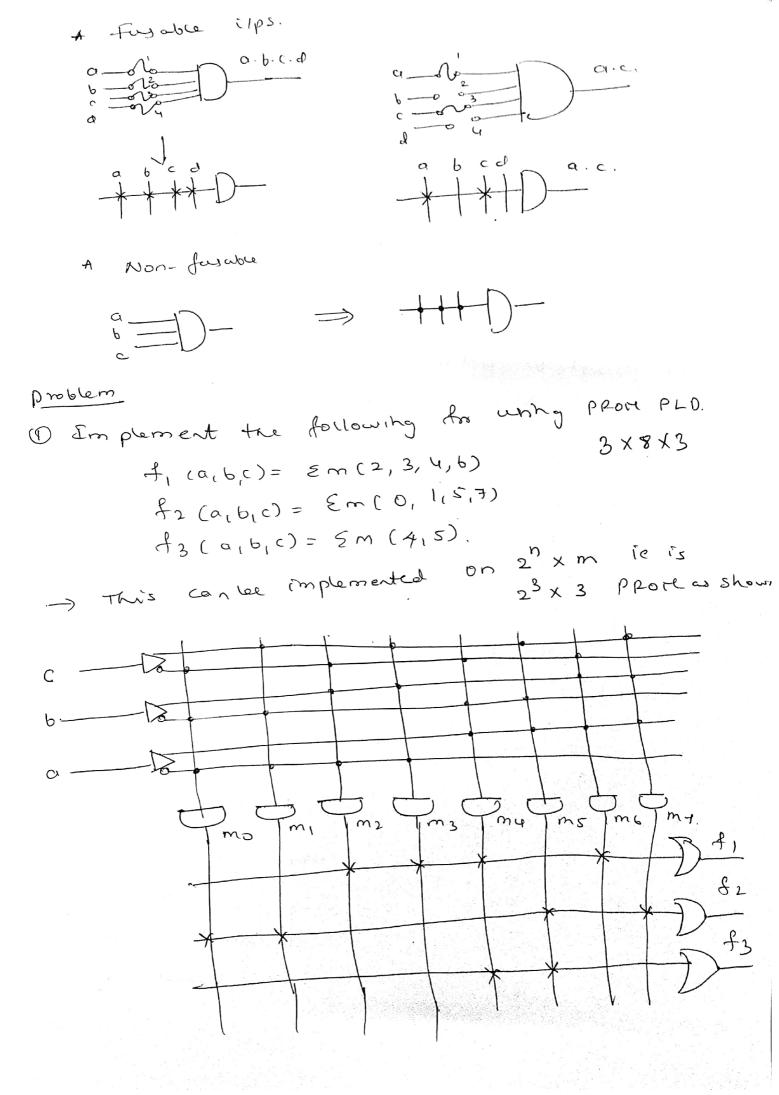
+ PROM - programmable Read only reemory

+ PAL -> programmable Array Logic.

* PLA -> programmable Logic Array.

* The process of entiring the information into these devices is known as programming. (How poogramming)

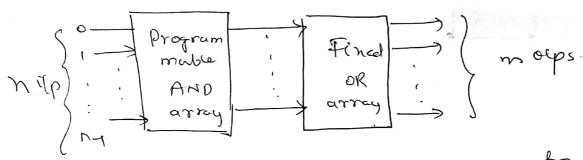




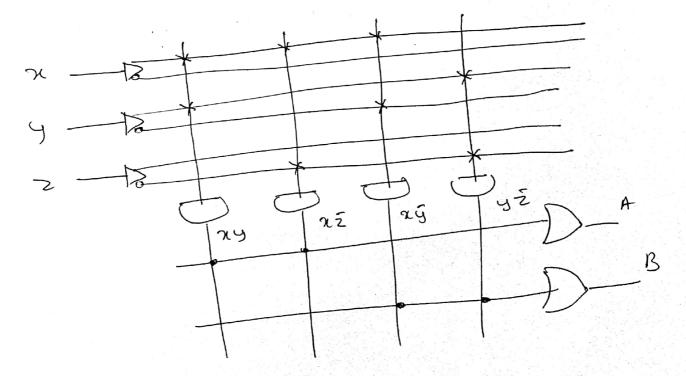
3 programmable Array Logic [PAL]

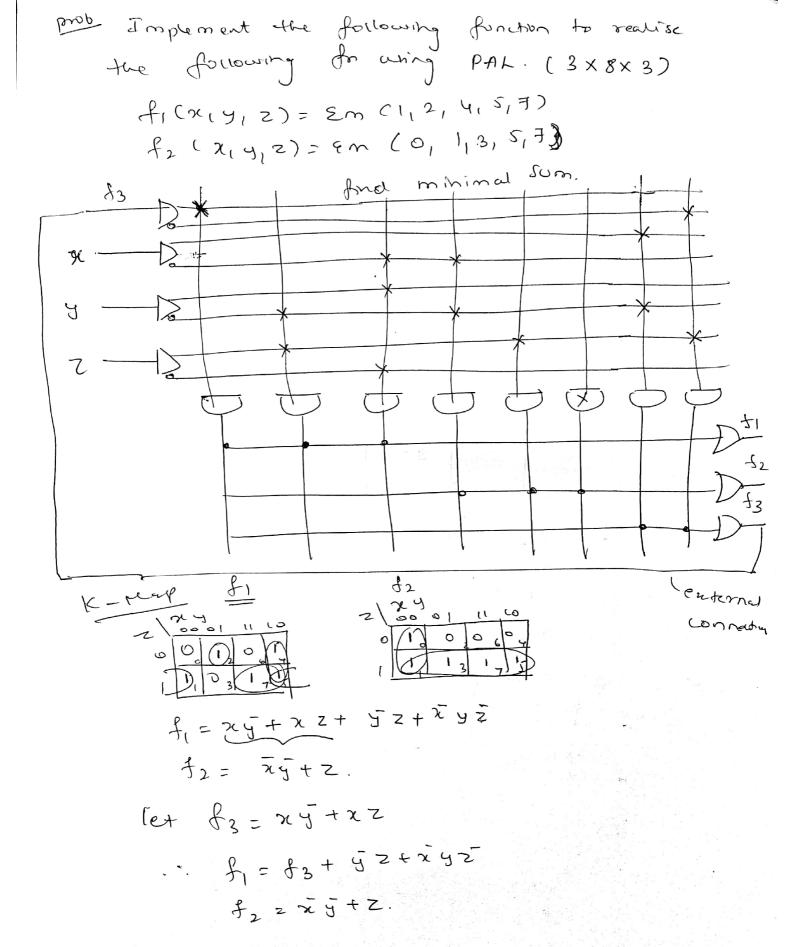
PAL is a programmable logic device that has programmable AND array and fixed or array.

Advantage? PAL is that only the organized product terms of boolean for Can be generated instead of generating all the minterns by who programmable Anogalis.



onob. Implement the following Boolean In centry PAL A = XY + XZ, B = XY + YZ 3XYXZ





(3) programable Logic Arrays. (PLA'S) In PLA both AND Array and OR array are programmable. * It should be noted that open input terminaly to an AND gate is logic-1, while open input terminals to an or got is logico. brockow maka OR + prob! Implement the following Boolean function using PLA. A = X7+X5 B= X 7 + 42 + x 2 25 24

