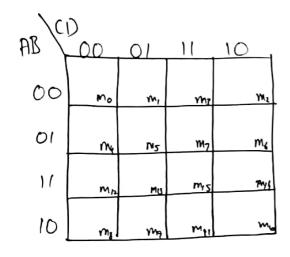
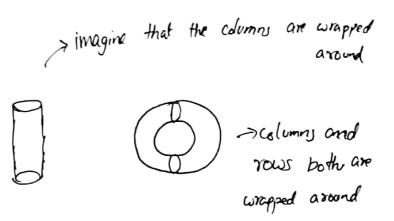
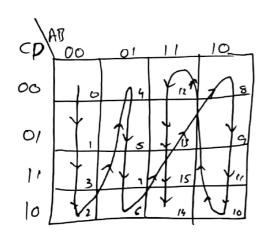


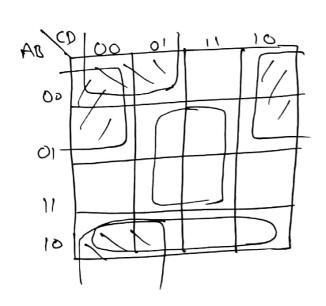
FOUR VARIABLE K-MAP

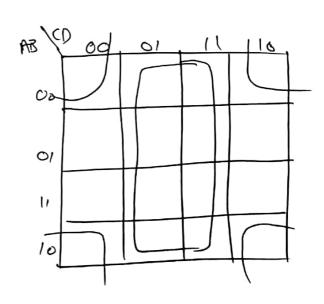
F(A,B,C,D) = 2 m(0,2,3,8,9,14,15)

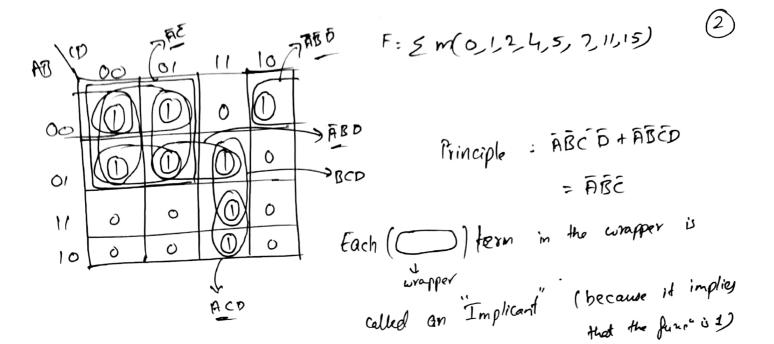












- All minterms (1's) have to be covered

- A 1 can be covered more than once.

- Prime Implicant - An implicant in which no new 1's can be added without dropping the existing 1's and covering the maximum possible 1's

Essential Prime Implicants: AC , ABD, ACD

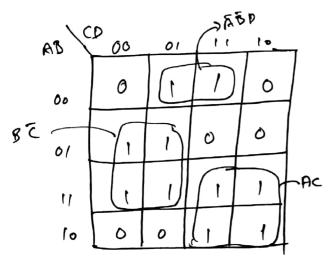
Mon-essential Prime Implicanti BCD, FABD

F= AC+ABD+ARD + BCDMARGE

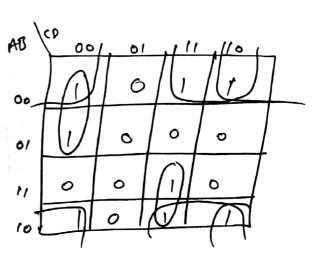
Choose

any one hom

F= Em (1345,10,11,12,13,1415)



F= 5 m(0,2,3,4,8,10,11,15)



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