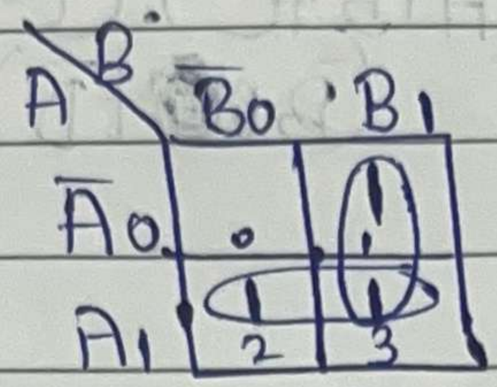
612415196 Krishna Warfade D-11

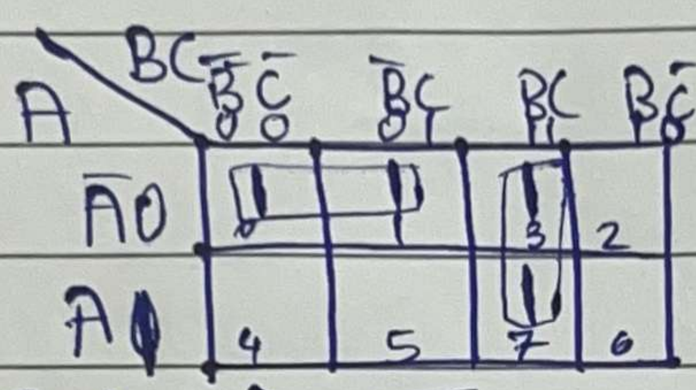
Assignment-B

1. $F(A,B) = \sum m(1,2,3)$



$F = B + A$

2. $F(A,B,C) = \sum m(0,1,3,7)$



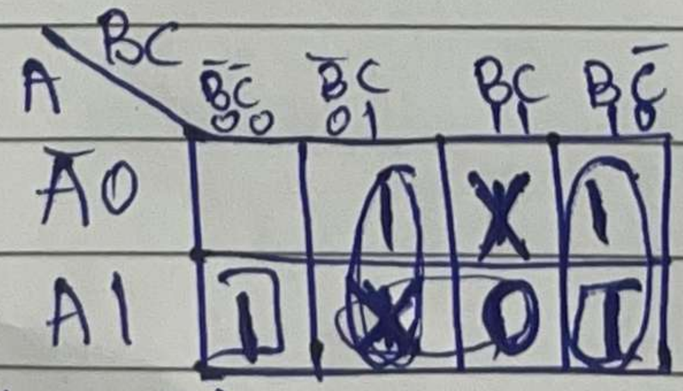
$F = \bar{A}\bar{B} + BC$

3. $F(A,B,C,D) = \sum m(0,2,5,7,8,10,13,15)$

$F = \bar{D} + D$

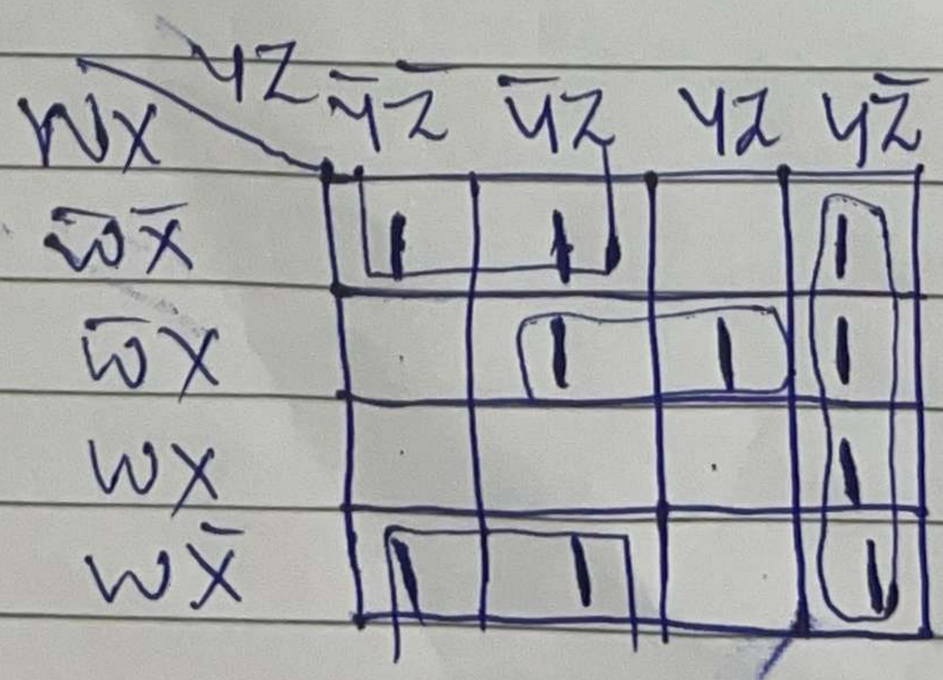
$F = 1$

4. $F(A,B,C) = \sum m(1,2,4,6) + d(3,5)$



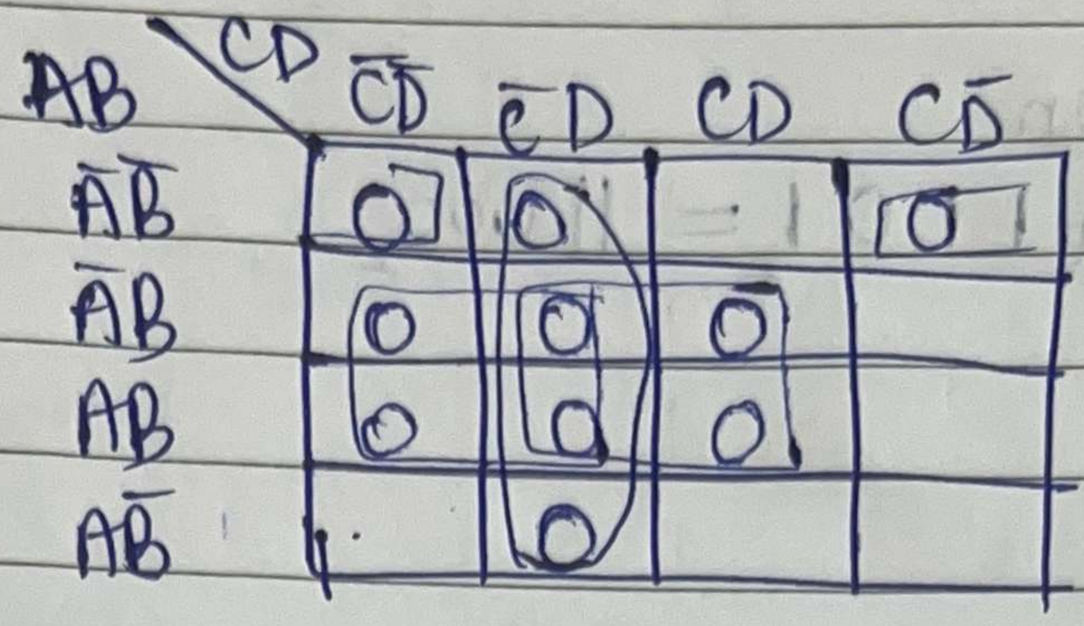
$F = B\bar{C} + A\bar{C} + \bar{B}C$

5. $F(W,X,Y,Z) = \sum m(0,1,2,5,6,7,8,9,10,14)$



$F = \bar{X}\bar{Y} + \bar{W}XZ + Y\bar{Z}$

6. $F(A,B,C,D) = \pi M(0,1,2,4,5,7,9,12,13,15)$

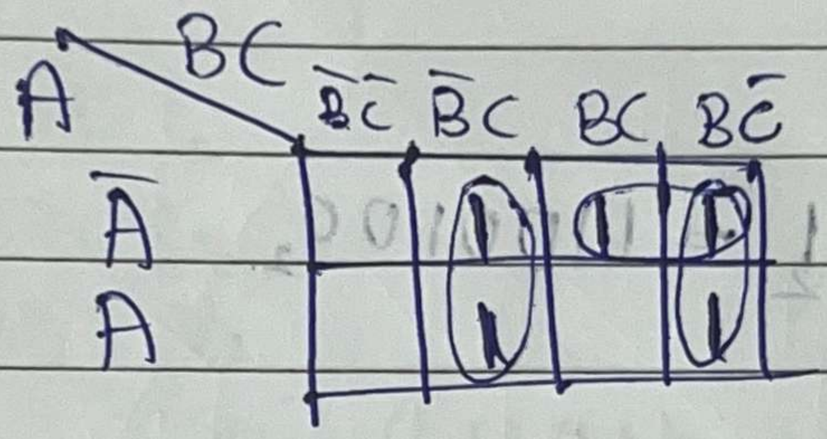


$\bar{F} = 1 + 11 + 111 + 1111$

$\bar{F} = \bar{A}\bar{B}\bar{D} + \bar{C}D + BD + B\bar{C}$

$F = (A+B+\bar{D}) \cdot (C+\bar{D}) \cdot (\bar{C}\bar{B}+\bar{D}) \cdot (C\bar{B}+C)$

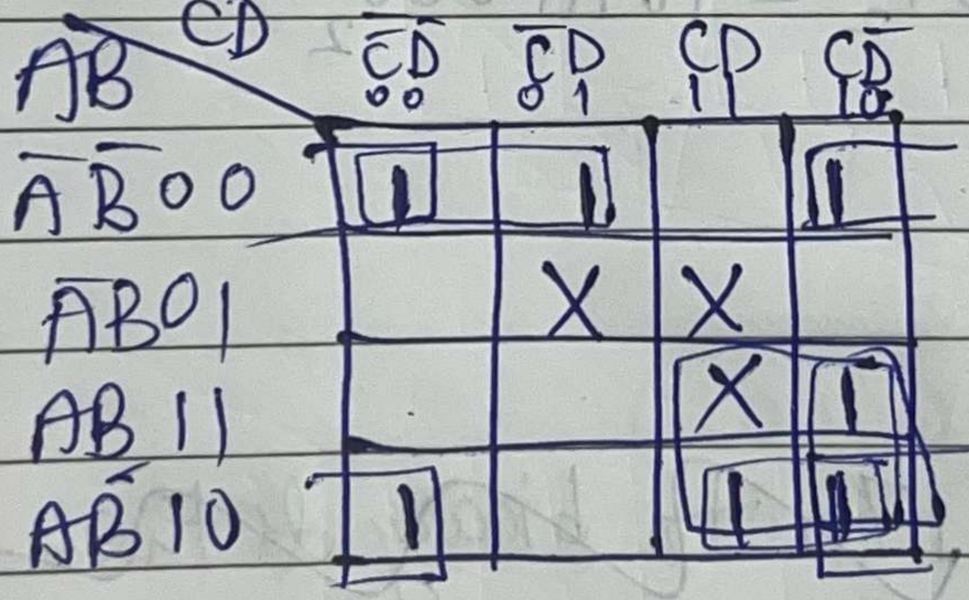
7. $F(A,B,C) = \Sigma(1,2,3,5,6)$



$F = \bar{B}C + \bar{A}B + B\bar{C}$

$= \bar{A}B + (B \oplus C)$

8. $F(A,B,C,D) = \Sigma(0,1,2,8,10,11,14) + d(5,7,15)$



$F = \bar{D} \cdot \bar{B} + \bar{A}\bar{B}\bar{C} + AC$