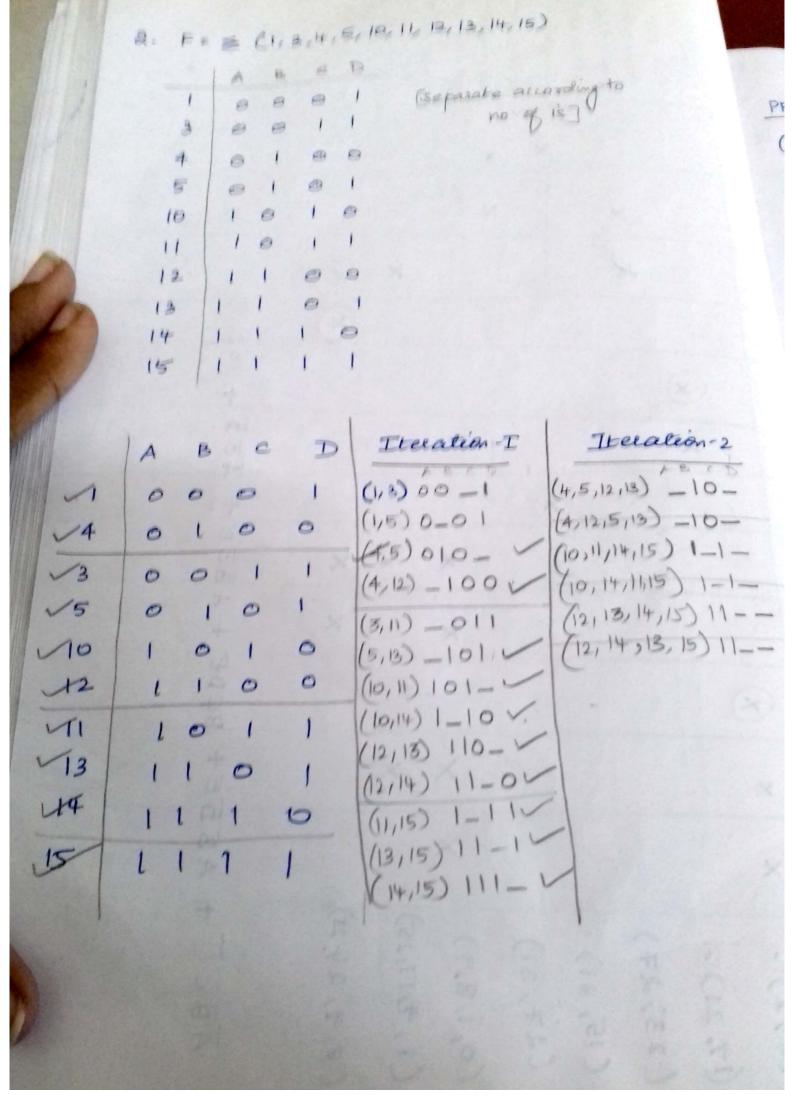
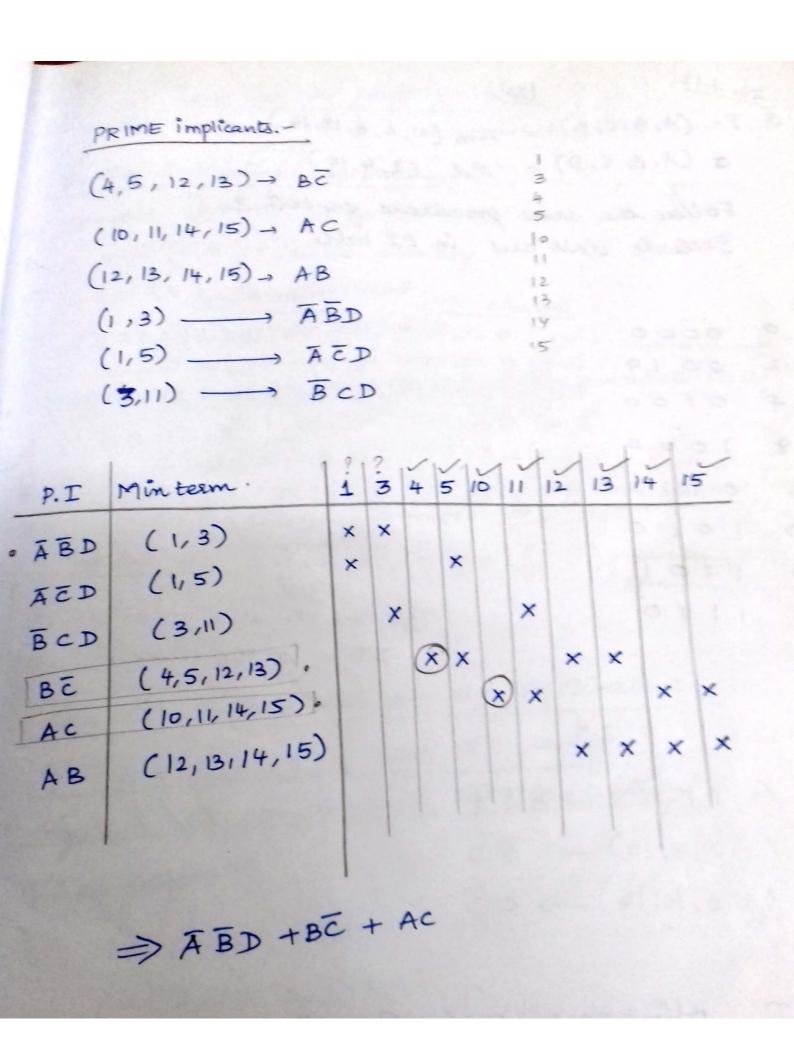
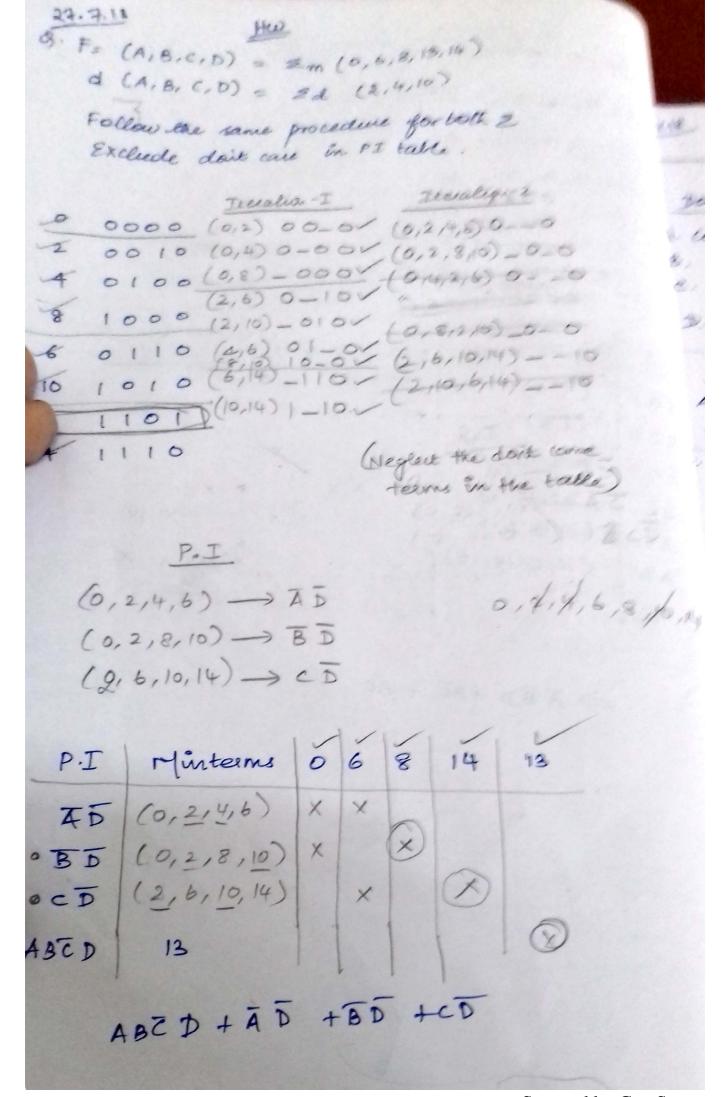


```
Tracation 2
       Iteration -1
      (0,0 0000 00
     (0,8) 0-000 V
     6,99
     (1,17)
    (8,9)
          -1000
    (8, 24)
   (9,25) -1001 V
          10-01
   (17,21)
           1-001
    (17,25)
    (2425) 1100-
   (25,27) 110-1
   (15731) -1111
   (27,31)
          11-11
  Prime Implicints)
 (0,2) ABCE
        ABDE
(17,21)
(28,27)
         ABCE
(15,31)
        BCDE
(27,31) ABDE
(0,1,8,9) ACD
(1,9,1+125) EDE
 (8,9,24,25) BEB
```

Minterm	o	1	2	8	ě	15	17	211	24	25	27	31 1	there
(0,2)0	×	*	(2)										1. Single
(17, 21)							X	×		V			entry from each colum
(25,27)						-				*	X		Solected of essential
(15, 31)						X						×	2. They hav
(27,31)											X	×	be marked put a tick n
(0,1,8,9)	×	×		×	×								3. their min are select and ticked
(1,9,17,25)		×					X						Ton the top
(8,9,24,25	20		+ 1	×	×				×	X			dented as
7575	+ AB	DE+	BCD	E+	ABE	E+	AZ	D + 8	300				
	(17, 21) (25, 27) (25, 27) (15, 31) (27, 31) (27, 31) (0, 1, 8, 9) (1, 9, 17, 25) (8, 9, 24, 25)	(17,21) (25,27) (15,31) (27,31) (27,31) (0,1,8,9) (1,9,17,25) (8,9,24,25)	(17, 21) (25, 27) (15, 31) (27, 31) (27, 31) (0, 1, 8, 9) × × (1, 9, 17, 25) × (8, 9, 24, 25)	(17, 21) (15, 31) (15, 31) (27, 31) (27, 31) (0, 1, 8, 9) × × (1, 9, 17, 25) × × (8, 9, 24, 25)	(17, 21) (15, 31) (15, 31) (27, 31) (27, 31) (0, 1, 8, 9) × × (1, 9, 17, 25) × × (8, 9, 24, 25) ×	(0,2)	$(0,2)$ \times	(0,2) × * $(7,21)$ × (17,21) $(25,27)$ (15,31) $(27,31)$ (15,31) $(27,31)$ × × × × × × (1,9,17,25) × × × × × × × × × × × ×	$(0,2)$ \times	$(0,2)$ \otimes \times $*$ \otimes \times	$(0,2) \odot \times $	$(0,2) \odot \times $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

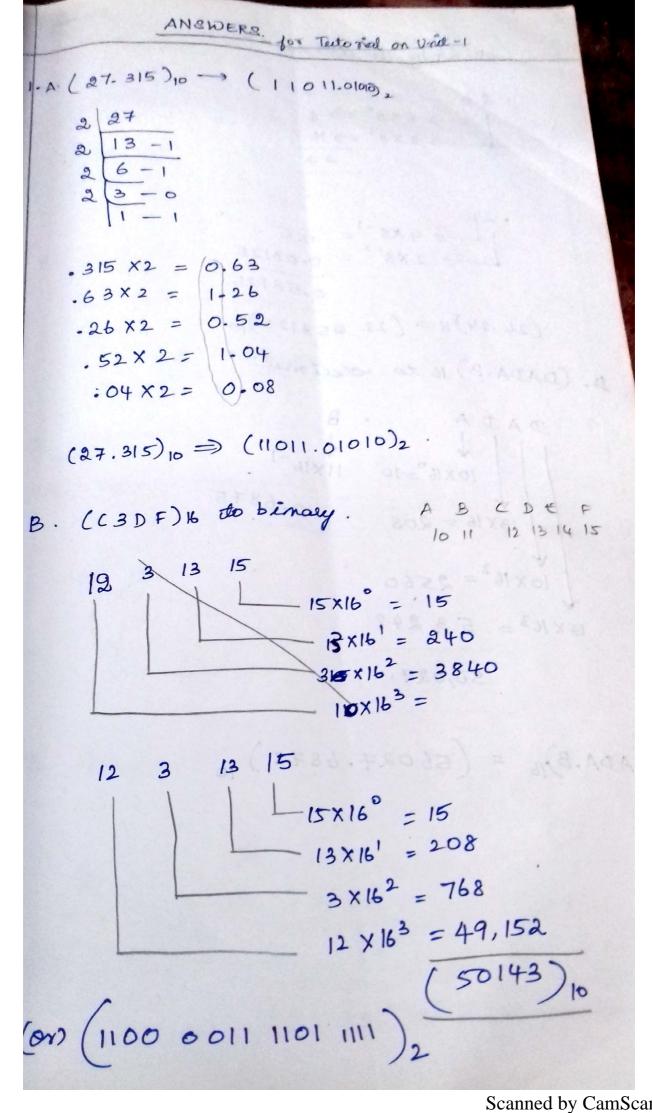


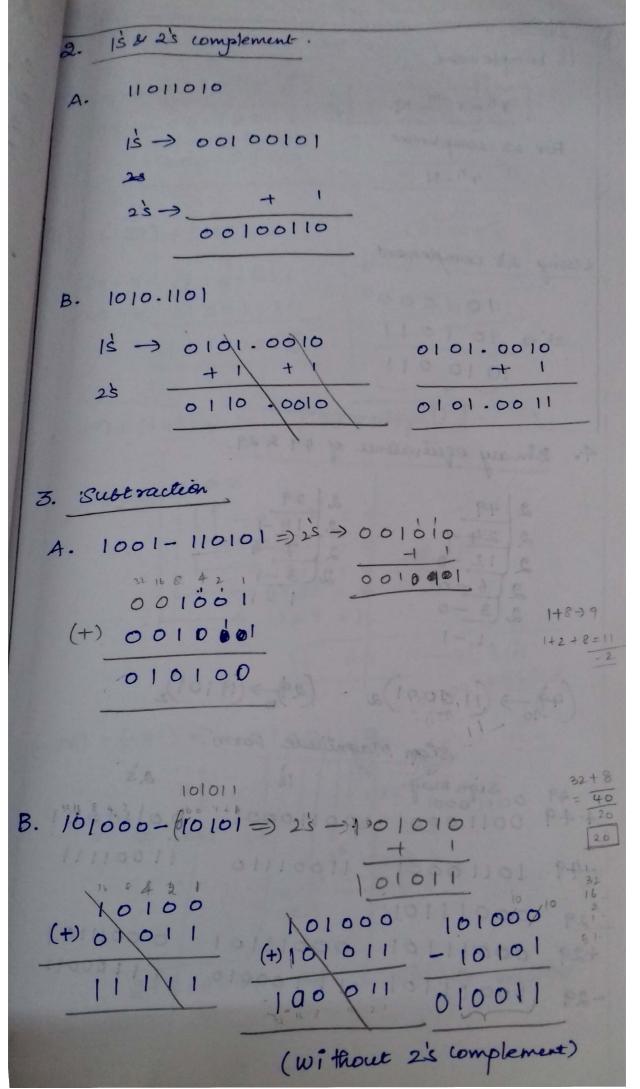




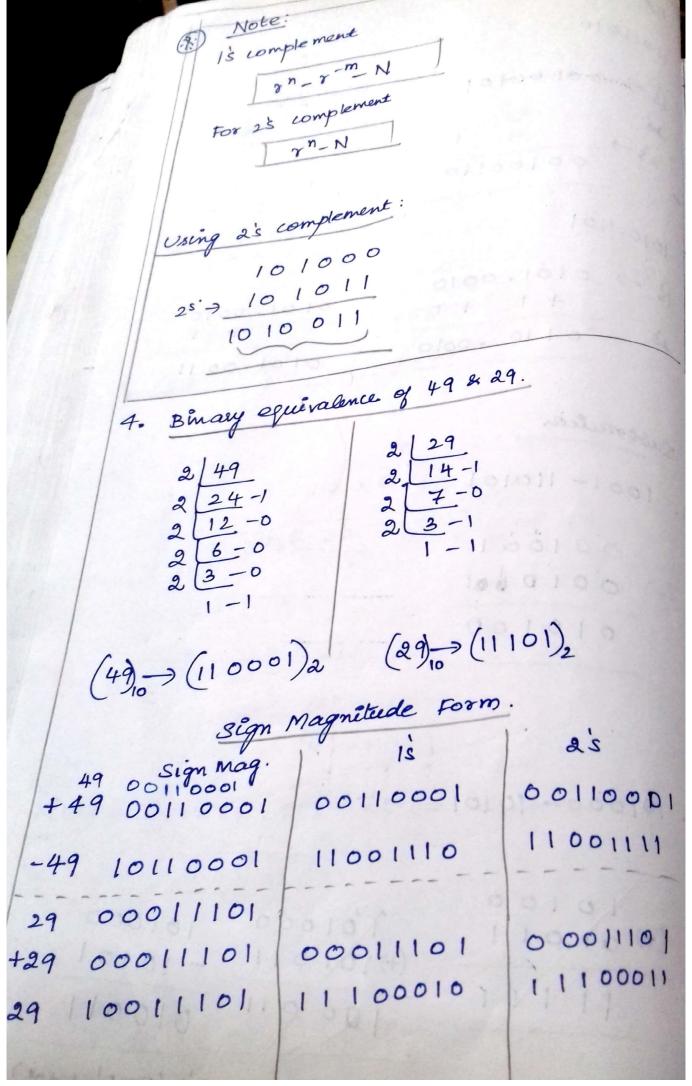
Lectorial on Unit-1. Do the following conventor 4. convert (27.315) 10 to Linary B. et (CBDF) 16 to benavy c. (26.24) g to decimal. D. (DADA.B) 16 to decimal. Obtain is and is complement of the number. A. 11011010 1010.1101 . e. Perform subtraction Using 2's complement of the subtranant A. 1001 - 110101 B. 101000 - 10101 7. Convert Perform the binary equivalent of 49 and 29 (of base 10) wing signed 2's complement representation. Then perform (i) (-29) + (+49) (u) (-29) + (-49) convert the answer back to decimal and Verify the result. 5. convert the binary 1101110 to gray code. Reduce the boolean expression rusing boolean law. A. (A'+c) (A'+c') (A+B+C'D) for the reduced the ideaw circuit versing universal gates.

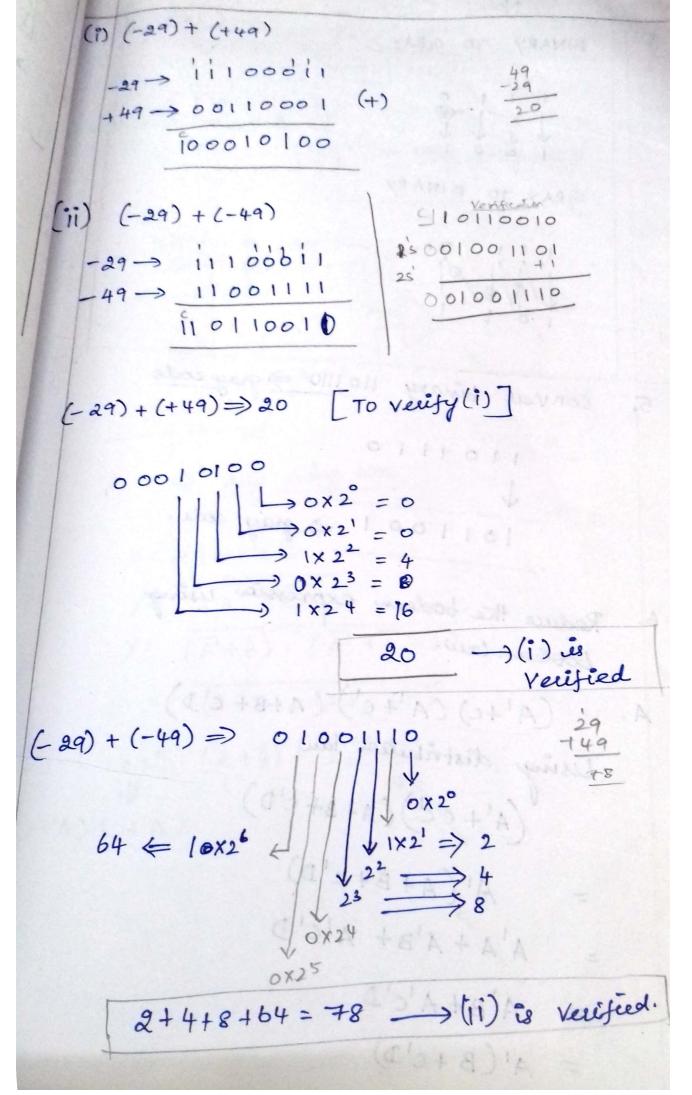
(cd+b'c+bd')(b+d) sum of min terms Polt of max terms (canonical form) 7. Express the function 8. Express convert A. F(x, y, z) = E(1, 3, 15)to other canonical form. B. F(A,B,C,D) = TT (3,5,8,11) A. (u+xw) (x+u'v) into rum of pote and pet of sum (strandard zorm) 9. Convert: 10. Reduce cusing k-map A. $F(w, x, y, z) = \sum_{i=1}^{n} (2, 3, 12, 13, 14, 15)$ B. F = w'z + xz + x'y + wx'z 11. Using Tabulation method find the reduced expression A. $F = \{(1,3,4,5,10,11,12,13,14,15)$ B. $F = \leq (5,6,7,12,14,15)$ $d = \leq (3, 9, 11, 6)$ Verify the results using k-map.





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