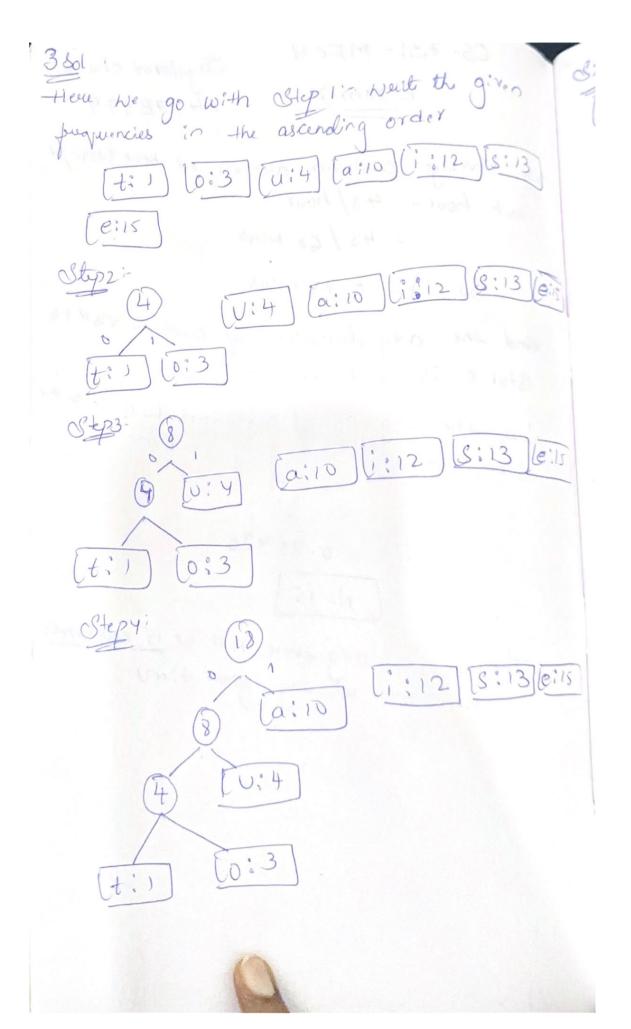
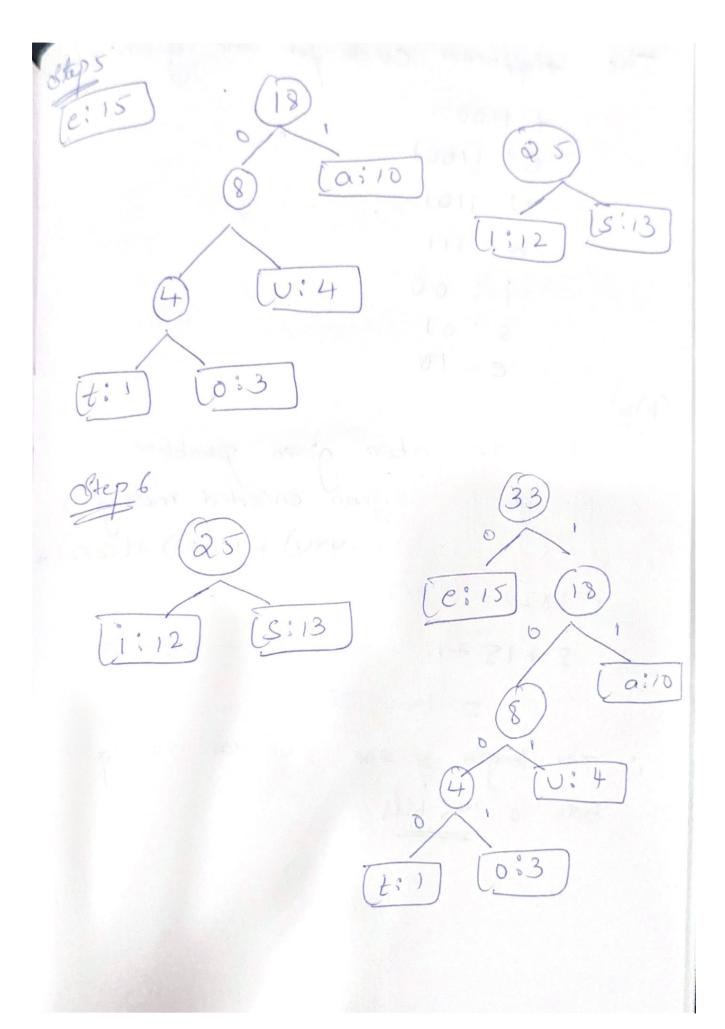
CS-731- MFCN Jayalarmi chatal F457E979 Exam-2 250) Average customer acceives at book store por each hour = 45/hour = 45/60 MINS 80 l= 0.75 mins And the avg duration of customer visit to Ostore is 20 Mins. To 20 Mins NOD, the ang no. of customers will be inthe Blore, on any out any given time N=)T = 0.75 X20 N= 15 Therefore, on any there will be 15 customers in the store of any given time.





The Hytiman code for the given the 4:11000 0: 1100) 0:110) a: 111 ;;00 8:0) e=10 (b)sol In the above given peroblem Length of the Hoffman encoded mussag is => (1x5) + (3x5) + (4x4) + (10x3) + (12x2)+ (13×2) + (15×2) = 5+15+16+30+24+26+30 = 146 both .. The length of the Hyffman message in bith is 146 bits

130) En the given peroblem if the dide is choosen to doiling di=0, ditei will not be chosen abilly The objective function you acceive at to matimise = E Piti → 1; ≥0, for 1=1,2,3-10 -> xi &1 for 12/2/3-10 = E' x; = S (a) In the ortore paroblem 84 9 is chooser do xg2) then 8 te 2, must also te choosen, so the oth of is choose then out I mest be choosen I X2 \$ 0, When, Xq2) [x2- x9= 6

630) It is as in a bore given peroble Orte 1 & 8 both are choosing s', X, 21, & X82) then 8th 3 Cannot be choosen by [x,+x8+x3 = 2] CSU St is given as the above problem of the 6 or 8th 7 either is choose to x621, xxz1., then Bete 10 Carnoth choosen, 80 710=0 てもするのと)