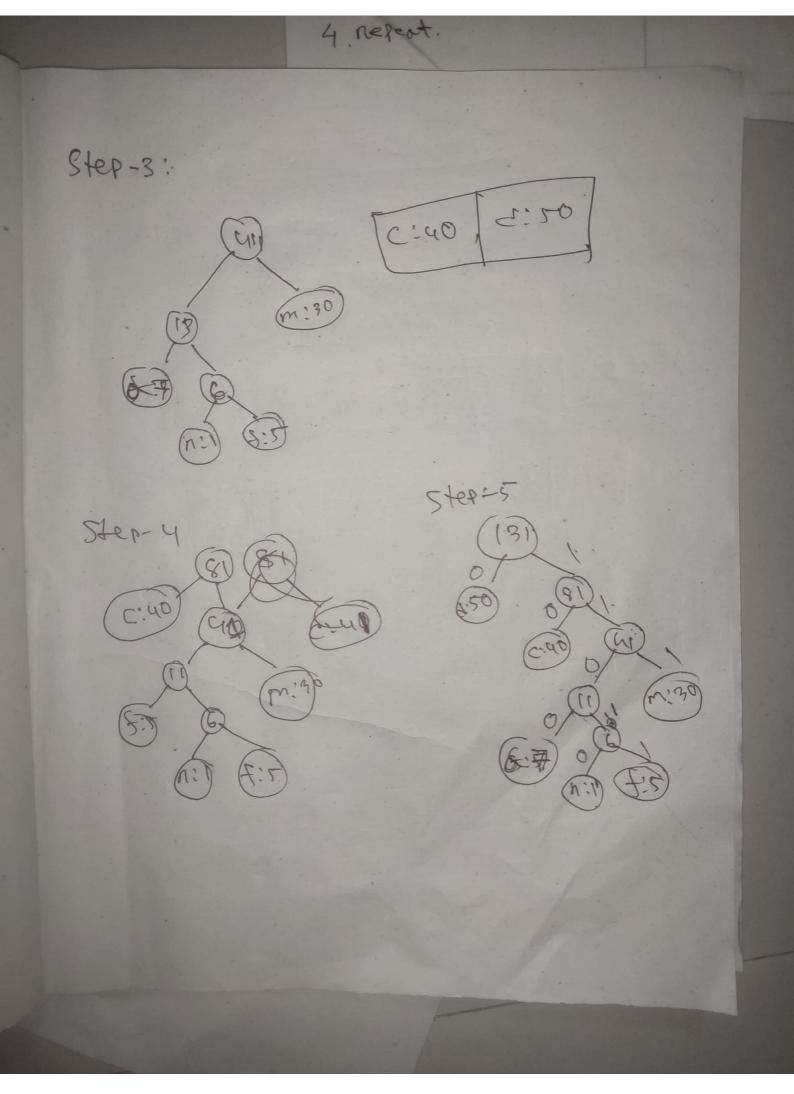
## Ans to the a. No:

D) Huttman coding:

Haffman code is data compenession algorithm. In our computer each deharractere stoned of binary code of find bright. the Hutfman coding algorithm soesn't are. time langth code Haffman coding out shorters until code mig which are more numbers of time and a longer length eadeumt which used by number of time so we can see sex quat for Huffran Oding that meedy choice property. We know aneedy Chorce Aponithm make the door'ce the ablogically optimal and sest at the moment so I + 15 touc.

4 repeat. Haffman (6) my 1d: 193002101 X=1330021012100 Nov, | 0:7 0:40 d:5 f:5 m:30 n:3 50, dn: 4:5 0:7 m:30 c:40 d:50 Step-1 6 [a:7], m:30/e:40/d:50 Step-2 m:30 C:40



Man! Chanacter metir code 1100 11011 \_ 11010

Any to tre a. NO

Partitions a proplem into 1. Partitions a problem into Independent Smaller sub overlapping sub problems.

Problems.

2. Don't stone solutions of 2. stones solutions of sub Problems.

Sub-problems.

Calculations of same quantity twice

As to the a.No. Kmp: 1= size of T = 14 = size of P = 5 T = ABAADAABAACABA PIABAAC Step= 2 1=2.9=0 8tep-2 A B AA DAABACABA A B AAC Step-3 A B AADAAB AACABA ABAAC Step-4 ABAADAABACABA ABARC Step-5 ABAADAABA AMAAC 5te0-6 A B A A D A A B A A C ABA ABAAC

Step-X ABAABAACABA A B AAC Step-8 ABAADAABAACASA ABAAC Step-9 ABAABAACABA ABAAC Ste0-10 ABAADAABACABA RB AAC Step-11

Differen between	np-complete and
	nrp-hans problems
rep-complete Anotherns  (an be solved by  torring machine in  polynamial time	re-nand problem can be solved  if and only it there is  a re-complete problem that is  com be reducible pintoxin  polynomial time
Tt is exclusivly a decision problem	It does not have to be a  N + to solve tuis problem

Ans to the Q.NO:

0 mx 19: 193002101

= 19300 21017.20 +8

- 1+9

= 9

NOW,

i temo)	weight (wi)	rolue
1	2	24
2	3.	27
3	4	36
4	11	12
5	12	19(1)

ene know,

p(i,w) = max 2 v; + 8(i-1, w-mi), P(i-1), m)

