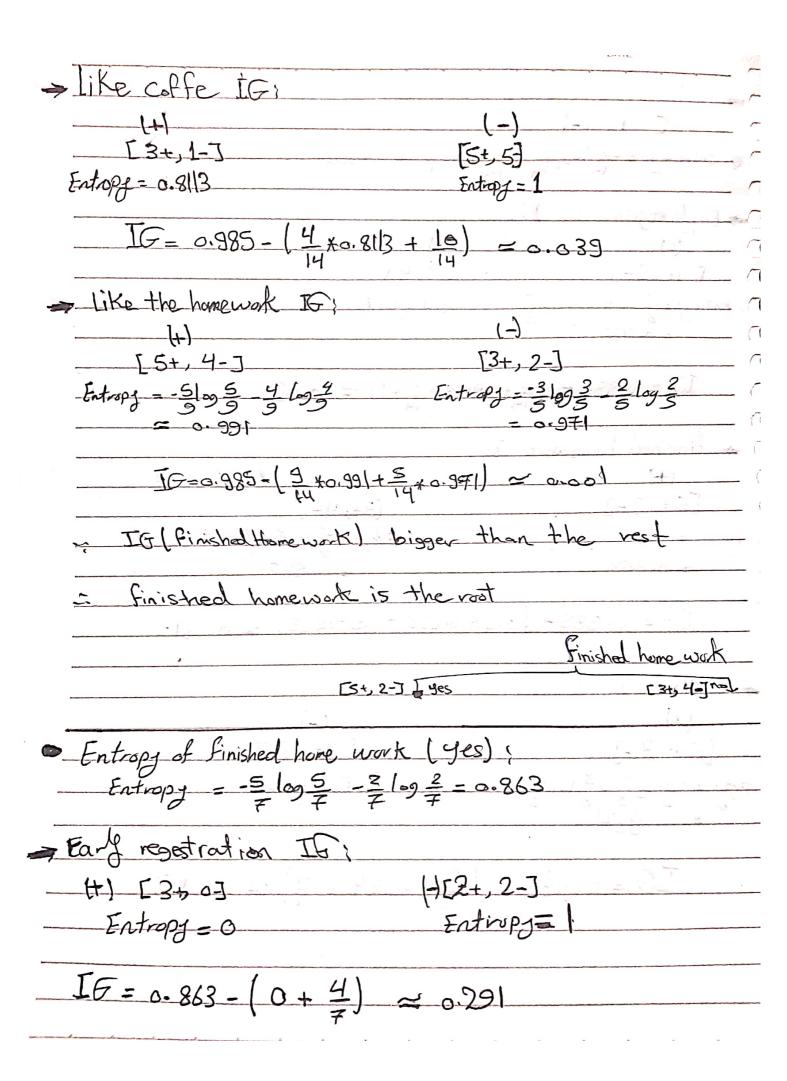
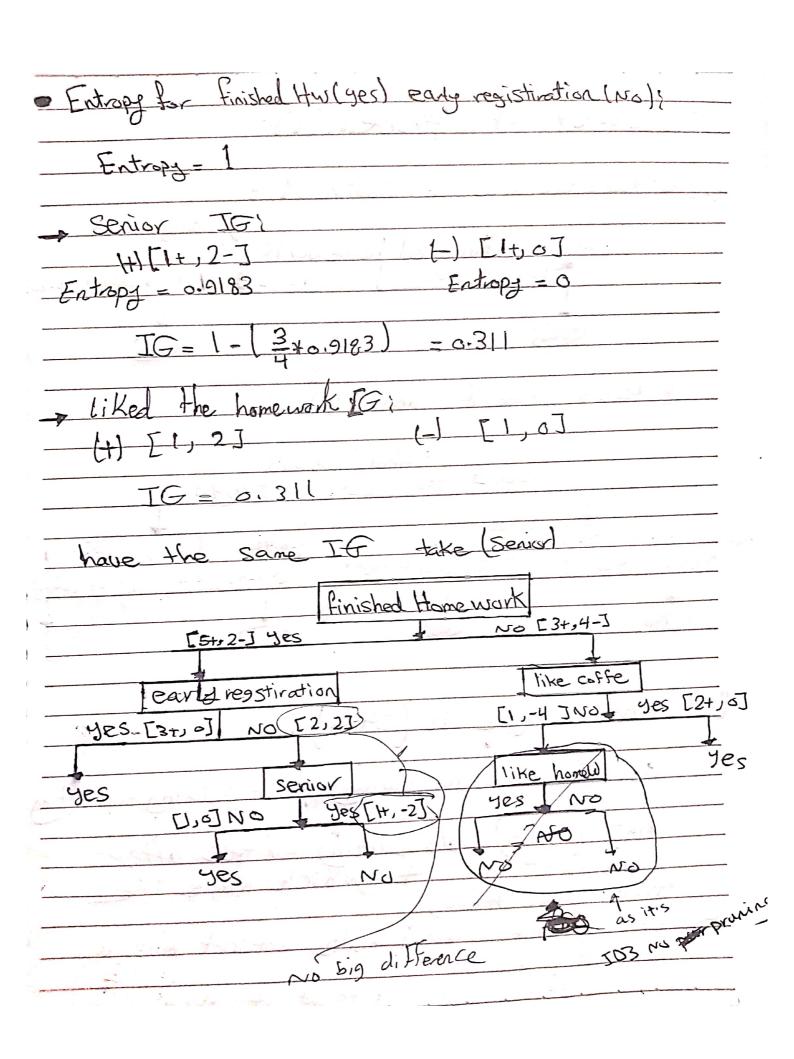
```
r → Dataset entropy:
Entropy = -8 log 8 6 log 6 = 0.985
 = Early registration IG:
  Entropy = 4 log 4 - 2 log 2 Entropy = 1 = 0.9183
  - IG = 0.985 - ( 5 x 0.9183 + 8 x 1) = 0.02
                        Entropy = -3 log 3 - 4 log 4
 Entropy = - 5/09 5 - 2/0 2
     IG = 0.985 - (0.5* 0.863 +0.5 *0.985)
 Senior IF
  = IG=0.985-18*0.954+5)=0.013
```



> Serior TG:	
(+) [3,2] (-) [2,0]	
Entropy = 0.971 Entropy = 0	
$TG = 0.863 - \left(\frac{5}{7} * 0.971\right) \approx 0.1694$	
= like Caffer.	
1+) [1, 1] (-) [4+, 1-]	
like Coffee	.7219
$IG = 0.863 - \left(\frac{2}{7} + \frac{5}{7} \times 0.7219\right) \approx 0.0616$	
-> liked the home work IF:	
(+) [+3,2] (-) [2,0] En: Extraps = 0	
En Extrapt = 0	and the second s
IG = 0.1694	
IG(early registration) bigger than the rest	
time the note	
[s+2]	d homework
yes fearly registration	790
No.	
[[24,2]	
Ansie,	
Entropy for finished have work (NO):	
Eural Localina	
Entropy = 0.985	
[NI 10P] = 0 000	



Tes (C4.5), as TDS has no puring or ar solving overliting but (C4.5) do puring for tree after Constructing; + which make the tree less deep,	- NSWer of Problem 117:
Gecision tree of depth (2)! Finished home workt [Str 2) yes no [3t,4-3] Entropy = D [Early resistivation] entropy = 1 [1,4] no yes [2t,3] (188	\mathcal{U}
Gerision tree of depth (2)! Finished home workt Esti 2) yes no [34,4-3] entropy = Early resistination] entropy = [131,0] yes no [24,23] entropy = [1,4] no yes [24,3] Tes no purping of ar solving overlithing but (C45) do purping for tree after Constructing; t which make the tree less deep,	entropy: 0.985 Finished homework entropy: 0.985
Finished hame worlt [St. 23 Yes No [3t, 4-3] entroly = D Early registivation entroly = D [11ke caffe] Q entroly = D Early registivation entroly = D [1, 4] No Yes [2t, 3] (Yes No [2t-23] entroly = D [1, 4] No Yes [2t, 3] (Yes No [2t-23] entroly = D [1, 4] No Yes [2t, 3] (Yes No [2t-23] entroly = D [1, 4] No Yes [2t, 3] (Yes No [2t-23] entroly = D [1, 4] No Yes [2t, 3] (Yes No [2t, 4] No Yes [2t, 4]	
Estivation on Estimation of Es	@decision tree of depth (2):
Tes no puring or tree after Constructing; + which make the tree less deep,	
Tes (C4.5), as IDB has no purning or ar solving overliting of but (C4.5) do purning for tree after Constructing it which make the tree less deep,	entropy = 0 [Early registivation] entropy = [1,-4] NO 14es [24,2]
but (C45) do purning for tree after Constructing it which make the tree less deep	The state of the s
but (C45) do purning for tree after Constructing it which make the tree less deep,	197 another time is (C4.5).
tree less deep,	
tree less deep	but (C4.5) do purning for tree after
For ex; [1: Ke home work] node desnot give as	tree less deep, for ex; [1:ke home work] node diesnit give as
(Senior red) without it there is only error in one training ex	(Senior red) without it there is only