PACE
Assignment 3 Students dataset
We have 14 record 2, 6 Not A
Total entropy (5) = 6/14 log_2(6/1) - 3/14 log_2 (3/14)
* Forly registration:
ER, 0, 4, ER, 1, 2
H(S) FR=0) = -4/8 log 2 1/8 - 1/8 log 2 1/8 = 1
HISIER-1) = -4 log2 1/6 - 2 log2 2/6 = [0.91]
Goiner = 0.985 1x 3/4 6.91 x 6/14 = 0.0235
e finished Homework
FH, 0, 4, FH, 1/2.
H(51 FH=0)= -3/7 log 3/7 - 1/7 log 2 4/7 - [0.985]
H(S) FH=1) = = log 5/7 2/7 log 2/7 = [0.8631]
Cia 6005 6005 7 212 4 74

0.061

	As we see that finished	Last homework has the
	highest information gain -	then it will be our
	tree roo node.	
-	We start calculating age	un.
7		
-	Finished Ho	mework
3_		(6)
3	Then get the gain of the	2+
3	rest,	* ER-10/2
	-0 0 2+	50 07 1+
	KER-10 Z	ER-1/,2.
2_		
3	ER - 1 / 0	GER = 0.02
3		1+
~	GER = 0.413	of Senior 0 3.
_		0 0 7 21
_	10 4(7)	Schor 3 1
3 4	G Senior = 0.167	
<u> </u>		Gsenior = 0.128
2	211	
	GLC = 0.34	C 10 0 115
=	0,,,,	GLC = 0.47
3	GLLH = 0.167	C1111 - 2
3-	Then we will take	GLL1+ = 0.62
3	men we will take	^
-	early registration	$\rightarrow 0$
	Liked Toffee	
A CONTRACTOR		