			Mid						
2) - Decision Tree									
(a):- Find Entropy									
61- Entropy of Feature									
@1- Information Grain									
Or Entropy = -P(Yes) log P(Yes)-P(No)log P(No)									
		And the second s	J.						
B <sub>+</sub>	E(Feature)	1= E(F). P(	Yes) + E(F)	P(NO)					
Dr E(Feature) = E(F). P(Yes) + E(F) P(No)									
$\Theta + \Theta(Gain) = E(T) - E(F)$									
		and the state of t	nin marcuma marca que consecuente e en canada e en						
Wind	Humidity	Compa	Rain						
10	lo	No	70						
20 /	60 -	Heavy	Yes	Mo=3					
15	50 -	Medium	Yes						
25 /	(10) -	Medium	Yes	(Yes=4)					
20 /	10	No	> No	(TZ7)					
40-	20	Medium	No						
15	45	Heavy	Yes						
The state of the s	and the A Charles of Charles and Charles a	All and an artist of the second and artist of the second artist of the second and artist of the second and artist of the	1000						
and the same of th									
Find Root-Node = P									
- Lind Leal Indi									

The state of the s								
(Find Enterpies)								
1 401 - Calculate s	401 - C-0-0+							
step #011- Calculate Entropy of Rain (Target)_								
Tam (larger) -								
E(R) ZP								
E(R)= 1 E(4,3) -> E(40, No)								
	(103)							
E(4,3) = E(R)								
E(R) = - /4 ) log /4 ) 80	13/000	(3)						
$E(R) = -\left(\frac{4}{7}\right) \log_2\left(\frac{4}{7}\right) - PP\left(\frac{3}{7}\right) \log_2\left(\frac{3}{7}\right)$								
F(R) = 0.9852		-						
$E(\omega) \ge P$								
Yes	No							
- [Wind] W≥20 2	2	9						
W=20 2		3						
		7						
$E(W) = \left(\frac{4}{7}\right)E(W \ge 20) + \left(\frac{1}{7}\right)$	3 ) F (W <	20)						
$U = \left(\frac{4}{7}\right) E\left(2,2\right) + \left(\frac{3}{7}\right) E\left(\frac{3}{7}\right)$	2,1)							
	1. 1	_						
E(W) = 0.9649 (3)	) pag (1)	-						
15072 5.1647								

				Age .				
E(H)=P								
		Yes	No					
Humichity	H≥35	4	0	4				
Hamach 179	H<35	0	3	(3)				
				7				
$E(H) = (4) E(H \ge 35) + (3) E(H < 35)$								
42 (4) E(4,0) + 1 (3) E(0,3)								
<i>U</i> =	" = G (4)(0) + (3)(0)							
E (H) = 0								
E(C) = P								
		Yes	No					
Clouds	No	0	2	3				
	Heavy	2	0	2				
N	edim You	2		3				
-	and a strong and the region country business many	and the state of t	common anticol de la commencia					
$E(C) = \left(\frac{2}{7}\right) E(No) + \left(\frac{2}{7}\right) E(Heavy) +$								
(3) E (Medium)								
	The same of the sa	The same of the sa						

$$E(c) = \binom{2}{7} E(0, 2) + \binom{2}{7} E(2, 0) + \binom{3}{7} E(2, 1)$$

$$= \binom{2}{7} \binom{0}{0} + \binom{2}{7} \binom{0}{0} + \binom{3}{7} \binom{0}{3} \binom{0}{3} \binom{0}{3}$$

$$= \binom{1}{3} \binom{0}{3} \binom{1}{3} \binom{0}{3} \binom{0}{$$

Hence, Grain greater is -eatures  $\equiv$ - Node is 1-H < 35