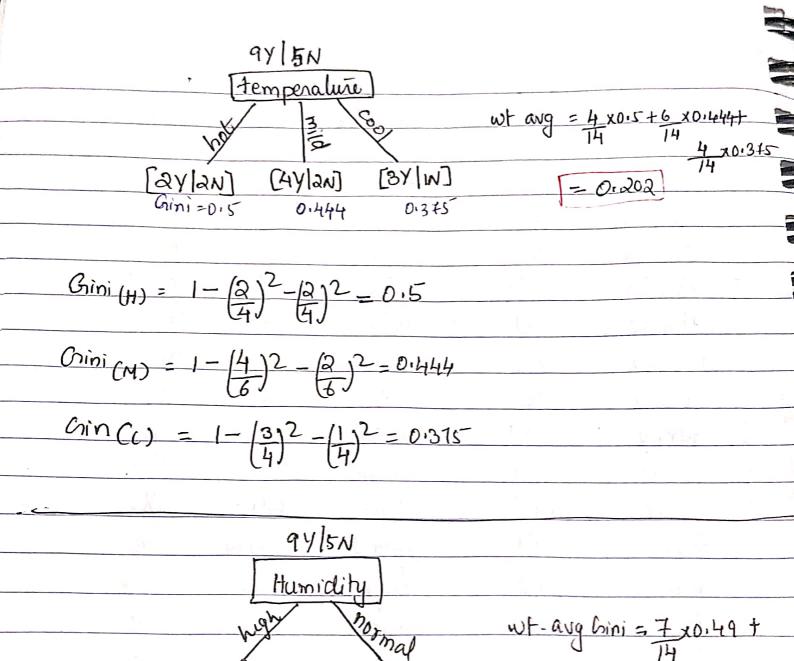
Data Set	
Outlook Temperature humin	kily wind Decision
1 Sumy hot - high	
2 Sunny hot hig	h Strong-No
- 3 Evercust hot- his	
4 Rainfall + mild - ly	gh weak! Yes
5 Rainfall a cool no	rmal weak Yes
6 Rountail or cool m	Drimed Strong o No
7 Overcastor cool no	semal strong yes
& Sunny - mild - 1	ugh Weak No
9 Sunny o cool r	normal weak o Yes
1- Pax ()	Domal Weak Yes
11 Surmy mild r	Dermal Strong Yes
	righ strong - Yos
	stmal weak Yes
14 Rounfall × mild - h	igh Blacong No
11.	V.J. LARIVEL
Decide the Root nocle	d for a first-
try -> outlook, Temperature	humidity and wind.
94/5N	Miles Miles
OUTLOOK	
Court Se Cainfell	weighted ang of Gini = 5 x 0. 1.8+0+
	5 x 0 n 48
Clinico. Lax	=00
Gring O. 4. 8 Pure Split	E0. 343
$Gini = 1 - (\frac{2}{5})^2 - (\frac{3}{5})^2 = 0.276.$	0, 373
Chim (R) = 1-(3)2-(5)2=0.48	
	C 1 1 C C

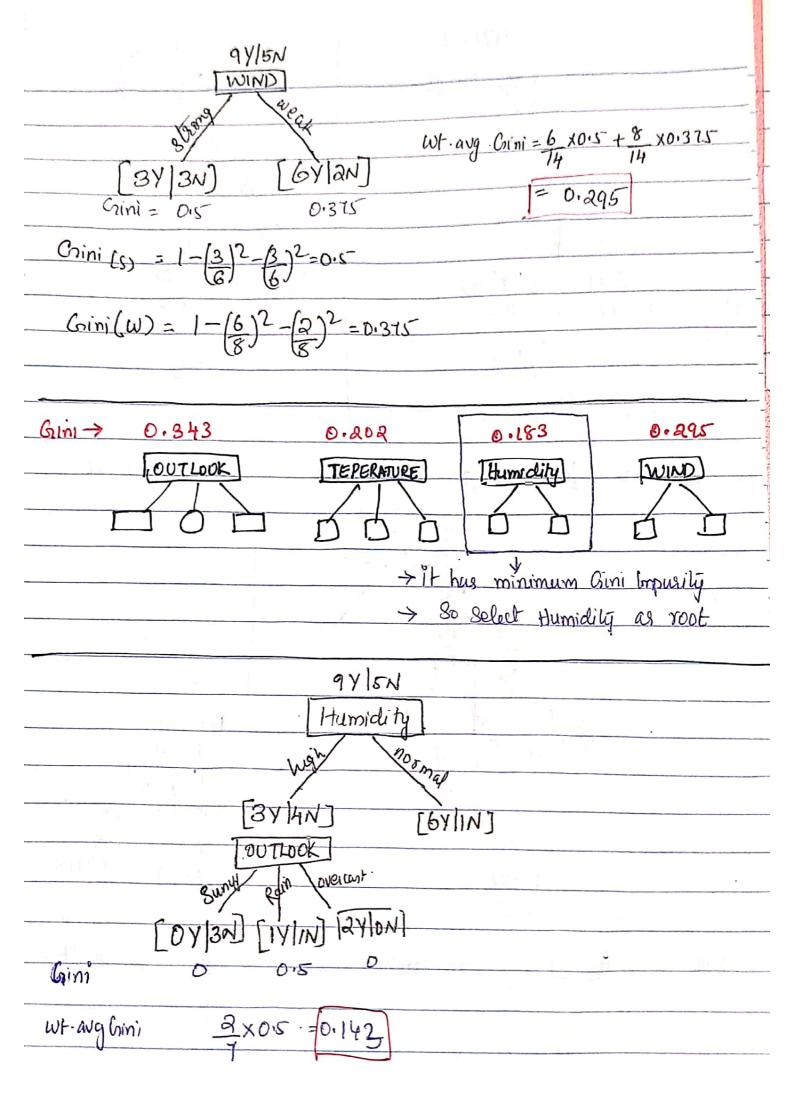


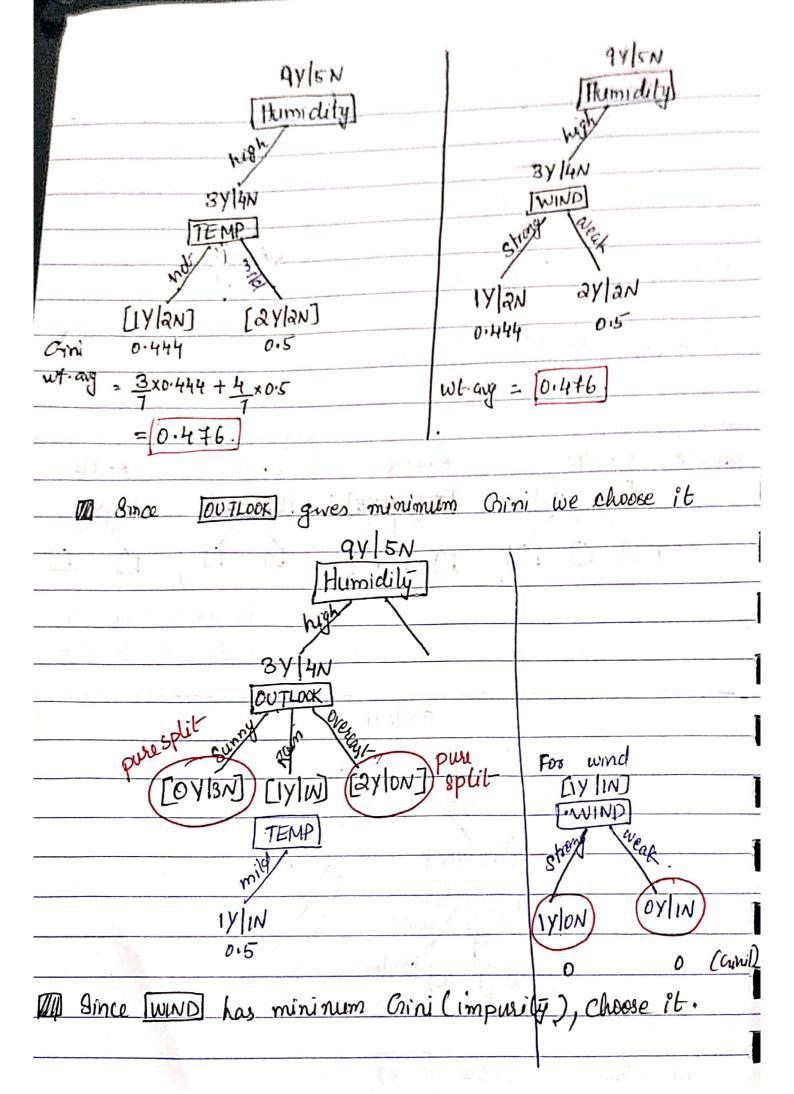
[34 | 4N] Gini = 0.49 = 0.183 Crin (H) = 1- (3)2- 14)2-0.49

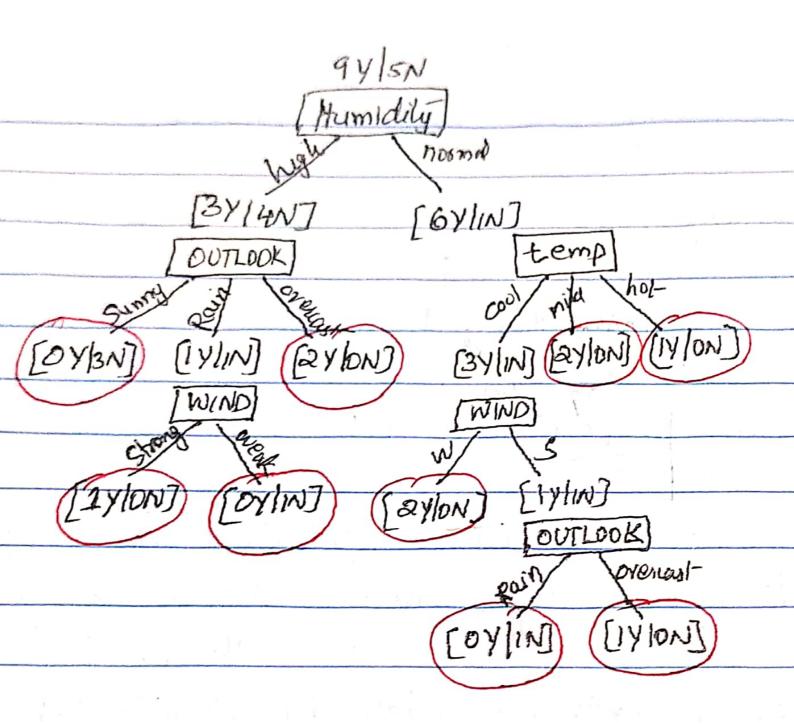
[64 11N]

Gin (n) =
$$1 - (6)^2 - (1)^2 = 0.245$$

7 10.245







Enthopy Vs Crime impurity	
Entropy	Orioni Impressity
(1) Value ranges behaven 0-1	(1) Value ranges between 0-0.5
(3) H(s) = - = + Piling(Pg)	· ·
(3) The computation is complex Smice it includes logarithms	(3) Crini imp computation is Straight forward and faster thoin H(s)
(4) The results obtained is better	(4) Results Obtained is not as good
(5) Training is time consuming	(6) Training is faster than HISO method.