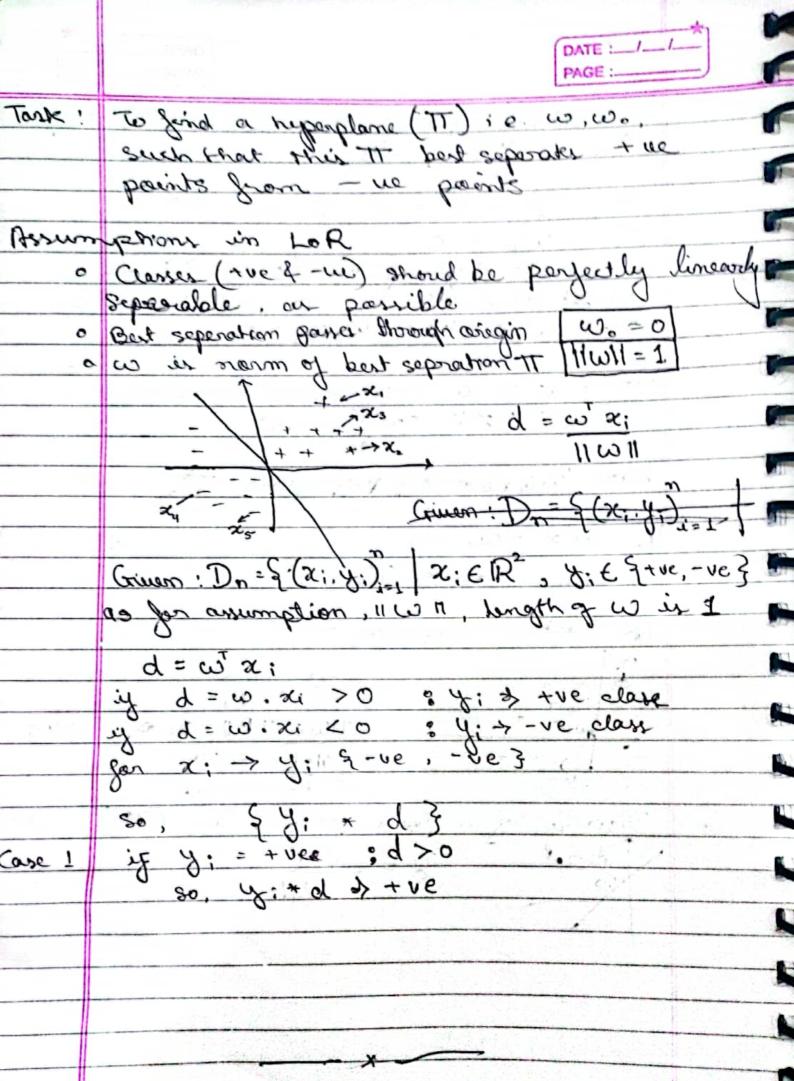
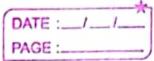


The Person of th	
	If thisline paner through (0.0) origin
	2 = -w. x - 0
	W.
	So, -w. = c = 0 % w2 =0
	• - 42 = 0
A.H	So, cutale equi q line (0,0) 2D ->
	(2) 20, x, + W, x2 = 0 ≥ TT, : Wx = 0
	3D -> w, x, + w2x2+ w3x3 = 0
	'00
	TT : w x =0 2) w. se =0 det product
	11 WII 11211 COLO = 0
	30'
	Here = ciois norm of texperplane TTZ
	113: Wx + W = 0
	win a norm of TTs
	WR Task : Seprating TT
	P2 >
	+ + + + ω, ρ,
	11WH 11P11 COLO = + Ve
	10++ W.Pz = +ve
	B- W. P3 = (-)ve
*	Digramie of a point from a line (TT)
	1 2.0 1 ω.ρ
	1 IIWII





10	
	Evaluation of Linear regression :
	Mean square over Conse) Good
	Mean square over Conse) food Coff coefficient of determination (R2) bad
N	4 R= I- Residual Sum of Square (RSS)
-	i.e. Total sum of aquare (TSS)
7	$R^2 = 1 - \sum (y_i - \hat{y_i})^2$
15	$\geq (y_i - \overline{y}_i)^2$
	9: = actual output target
	y: = actual ordput/target y: = predicted ordput (+ y: = mean of actual target
Case L?	Best LR model -> RSS=0 R2 = 1-0 -1
	$R^2 = 1 - 0 = 1$
N.	Tss
Case 2 3	Average LR model -> RSS= TSS
- Case 3	wout LR model -> RSS > TSS
10	R2 = (-)ve
V	03
1	R2 trier so copture explained variance by
	boop ton ST
4	3.5
7	
4	
	Commence of the commence of th