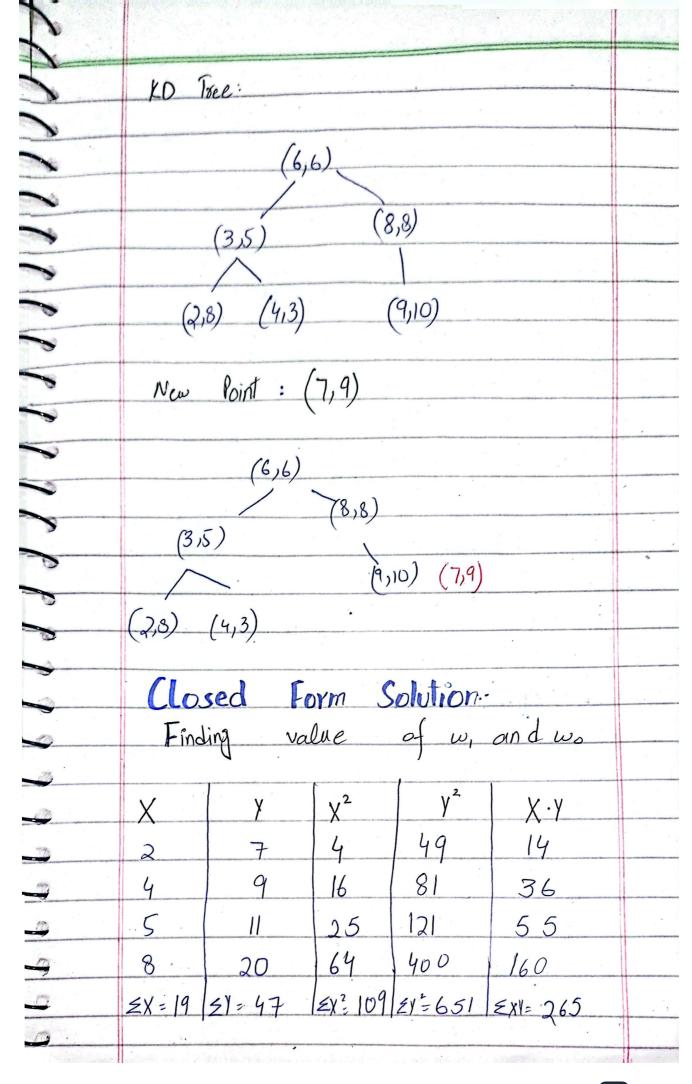
	KMN	2-MIU-CS-1  -		and the section of th
	Study Hour	Sleep Hour	Exam Result	Eucledian distan
	6	7	Pass	2.8
	3	8	Fail	3.16
	S	8 10	Pass Pass	5
	2	9	Fail	7.07
	2		1470	
	Now:			
	4	5 ?		
	Here K	= 3		
=)	First Colcu	ulate Eucledia	n distance	
1	Ascending ord	er: 2.8		
	· ·	3.16		
	0	4.4	+ 4	
7	So acco	rding to	voting its	
	class is	Fail	, v	
	4 5	Fail		

## Tree Data: (2,8), (9,10), (3,5), (8,8), (4,3), (6,6)median ·· (2,8), (3,5), (4,3), (6,6) (8,8), (9,10)





	W,= N(EXY) - (EX)(EY)	
	$N(\xi x^2) - (\xi x)^2$	
		5
-	1. (-,-) (0) (1.7)	6
-	= 4 (265) - (19) (47)	
	4(109) - (19)2	-
		5
MAX.	$ w_1  = 2.22$	. 0
		0
garde references propries and an agreement	1. 0	~
	$w_0 = \Xi J - \omega_1 (\Xi x)$	5
	N	
	= 47 - (2.2)(19)	
	4	
-		G
-	$w_o = 1.3$	C
		5
	$=$ $y = 2.22 + 1.3 \times$	٤
		2
	Perceptron learning.	
	x, x <sub>2</sub> Output	
	L Curpue	
	5 6 1	
	8 9 -1	
	2 3 1	
Education state (Ann Tonate Alexand	9 7 -1	
	7 2	
	hw (x) = W1X, + W2 X2 + W31	
A Street		

2		
3	Iteration 1:	
9	weight:	
	$w_1 = 0.5$ $w_2 = 0.2$ $w_3 = -$	0.1
	$h\omega = \omega_1 X_1 + \omega_2 X_2 + \omega_3$	
	= 0.5x5 + 0.2x6 +-D-1	
	3 '6	
	So, $h_{\omega} > 0 \rightarrow \text{outfut}=1$	
	Iteration 2:	
	hw = 8x0.5+ 9x0.2 -0.1	
	5.7>0 => 1	
	$=)  w^{\tau} = w_i + \lambda \left( y - h_w(x) \right) X_i$	
	$= \begin{bmatrix} 0.5 \\ 0.2 \end{bmatrix} + 0.2(-1-1) \begin{bmatrix} 9 \\ 2 \end{bmatrix}$	
	$= \begin{bmatrix} 0.5 \\ 0.2 \end{bmatrix} + -0.4 \begin{bmatrix} 8 \\ 9 \\ 1 \end{bmatrix}$	
	$\omega = \begin{bmatrix} -2.7 \end{bmatrix}$	
	-34	
	070 1 212	
	$h\omega = -2.7 \times 8 + -3.4 \times 9 - 0.5$	
	= -52.7 = 0	
11.000	=) alfat = -1	

Iteration #3:

$$hw = (-2.7 \times 2) + (-34 \times 3) - 0.5$$

$$= -16.1 < 0$$

$$0 = (-1.9) + 0.2(1+1) = (-3.2) + 0.2(1+$$

5	hw= -1.1x2 + -1x3 +-0=04	
5	- 5.24201	
N		
	$\omega = \begin{bmatrix} -1 & 1 \\ -1 & 1 \end{bmatrix} + 0.4 \begin{bmatrix} 2 \\ 3 \\ 1 \end{bmatrix}$	
9	1-0.04	and the second s
	w - [-0.3]	*
0	0.2	
	0.36	
0		
	hw= -0.3x 2 + 0.2x3. +0.36	
	= 0.36 > 0	
	output = 1	
1	our se	
-	Iteration = 4:	
	$h = -0.3 \times 9 + 2 \times 0.2 + 0.36$	
	= -1.94 < 0	
	output = -1	
	oupur = - I	
	GRADTENT:-	
	CIRAL) LEIVI.	
	d v . [ - 0	
	Salary Experience Salary	December of the second
43	5 10	
4	10 50	
9	5	
4		
- Alak - Alak		

	Consider N = 1, wo = 1				
made the shade the					M.
		9)	G	()	Expurience
		6	ی		Salar
	total	$\omega$	1	0	
	gradient				bedicted !
	11 03	, v		-4	taxox (
	-9-9	<u>.</u>	16	2.6	GradienT
		,			(wo)
		٠ ٢	160		Gradient
					E 6
					3

•	lea	raning so	Je=0.01				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ne		eights:				
7			- 0.01(	-99)=	1.89		
<b>b</b>	W	=	-00(-	15.9) =	8.759		
	2 <sup>m d</sup>		entere de la casa de l	and the second s			propriet literatural de character petro instrumento con
>		à :	= 1.099				
>		W	1.769				-
3	Perienæ 5	Salary 10	Predicted	1	Gradientus) - 0-07	Gradie	
9	10.	20	18.689		-0.874	-8.7	
<b>S</b>	2	5	4.617	-0.383	-0.255	-0.5	0
9				2	= -1 199	25	9-60
3	New	weights	S:				
5		Wo = 1.	- 0.01(-	1.199) =	1.01199		
	$\omega$	1= 1-	- 0.01(-	9.603) =	1.0960	3	
				erroratelativos, non se francapanos, lessos			
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	district that we	la ea .					