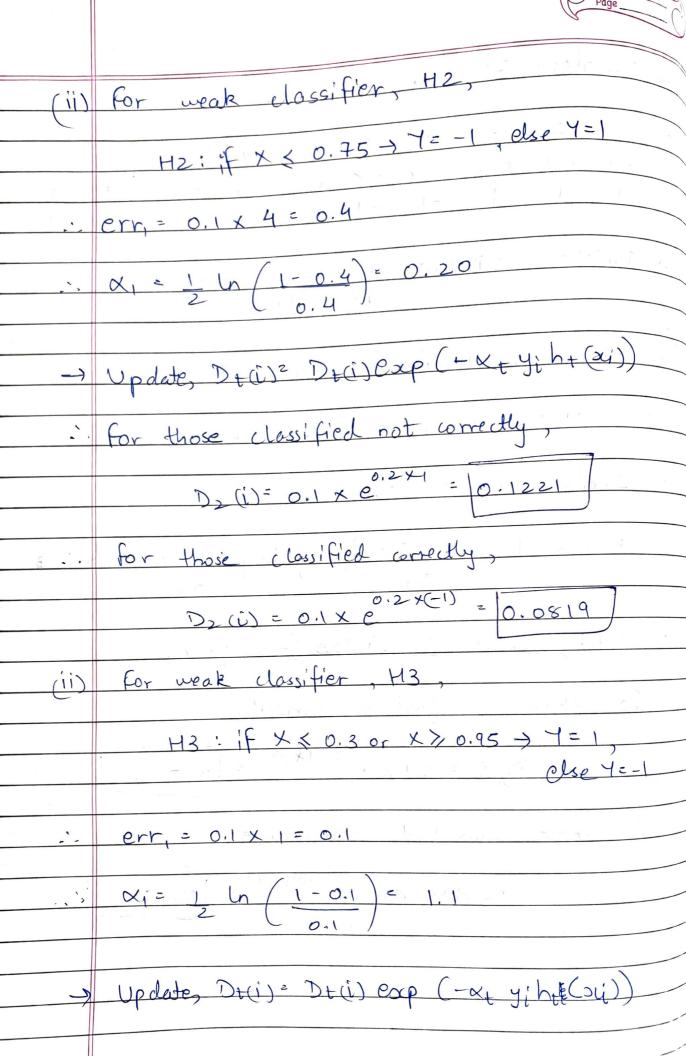
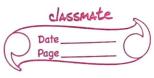


<u></u>	e Problem 3: Adaboost and Indiana
$\overline{}$	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
	$D_1(1) = \dots = D_1(10) = 1 = 1 = 10$
	For weak classifier (Hypothesis) HI,
	HI: if X < 0.35 -> 7=1, else Y= -1
Ċ.	erh = 0.1 x 2= 0.2
٠,	
	$x_1 = \frac{1}{2} \ln \left( 1 - err_1 \right) = 1 \ln \left( 1 - o.2 \right) = 0.693$ $err_1 = \frac{1}{2} \ln \left( 1 - o.2 \right) = 0.693$
>	Update, Dt(i)= Dt(i) exp (-xt y; ht(xi))
٠١٠	For those classified not correctly,
	$D_2(i) = 0.1 \times e^{-0.69 \times (1)} = 0.5016$
٠,	for those classified correctly, and
	D2 (i) = 0.1 xe 0.69 x (1) = 0.1994
	CONDENSE DE PROPERTO DE CONTRA DE CONTRADOR.





~,\]	for those classified not correctly,
	7 11 1 1
	D2 (i) = 0.1 x e 1.1 ×1 = 0.3004
_`.	For those classified correctly,
	$D_2(\hat{L}) = 0.1 \times e^{1.1 \times (-1)} = 0.0333$
(2)	Rose excess
•	For HI: Due to instances, 9 and 10, all
	The instances need to be reweighted
	after the first iteration.
•	For Ho: Do I . I
	For Hz: Due to instances, 1, 2, 3 and 8, au  the instances need to be reweighted
	after the first iteration.
0	For H3: Due to instance 9 all the ristances  need to reweighted after the
	first iteration,
	1100000