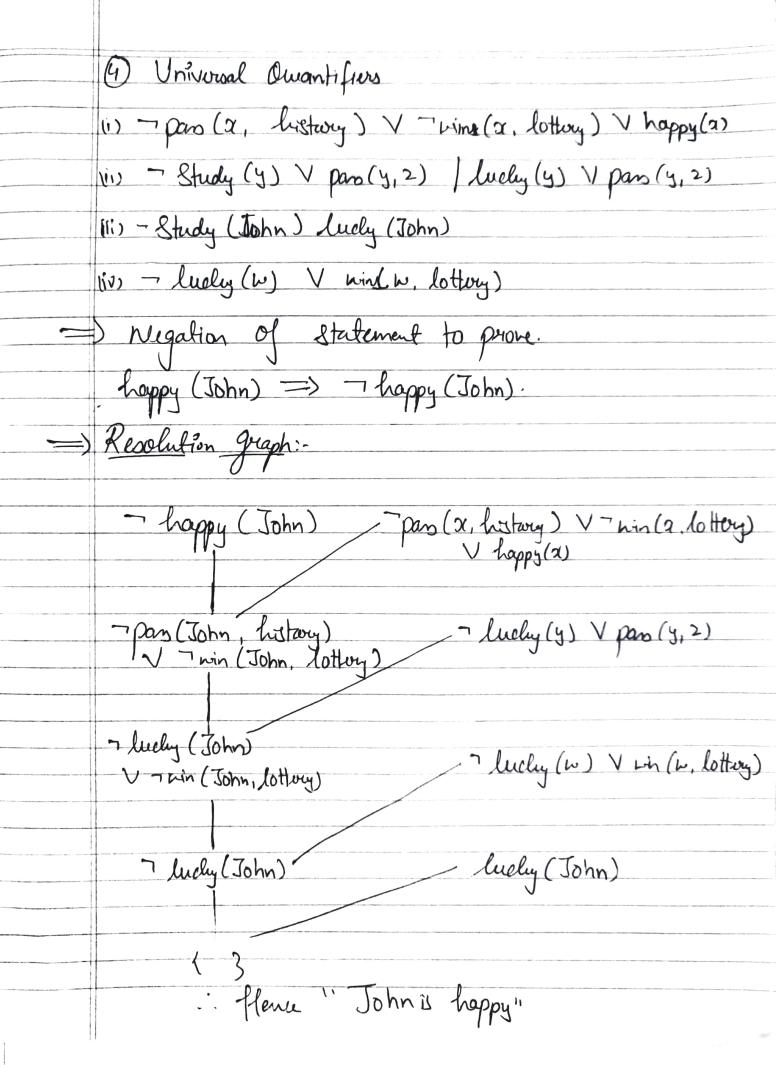
	NAME: Oshant Modh Class: IT Roll No. 076 Subject: Ks.
-	જ્ઞાનમંજરી સેકન્ડરી એન્ડ હાયર સેકન્ડરી સ્કૂલ – ભાવનગર
	અહીંથી લખવાનું શરૂ કરો
	Anyone paring his history exams & winning the lotting is happy. But anyone who Studies ar is lucky of can pass all his exams. John did not study but he is lucky. Anyone who is lucky wins the lattery. Is John happy?
	Convert - FOL
	1) Anyone passing his history exams & vinning the lottory is happy.
	Va: pan (a, history) A Vin (a, lottory) -> happy (a).
1	2) Anyone No Studies or is lucly can pars all bis
-	
-	$\forall x \ \forall y \ \text{Study}(x) \ \lor \ \text{lucky}(x) \rightarrow pan(x,y)$
	3) John didn't Study but he is lucly.
-	- Study (John) ~ lucky (John)
-	(4) Anyone who is lucky was the lattery
-	Ha: lucky(a) → win(x, lattory)
	5) Is John happy?
	assuming John is happy. Ind the answer so,
	: happy (John)

=> (onvat Fol into CNF
1) Remove Implication.
(1) Yx 7 (paro (a, history) ~ rin (a, lothry)) V happy(x)
(11) Yx Yy: 7 (Study (a) V lucly (a)) N pan (a, y)
(iii) 7 Study (John) n lucky (John)
11); Ya ¬ luchy (2) V in (x, lottery)
W) happy (John)
2 Applying Megalian &
i) Yx: - pan (a, listory) V - Lin (a, lottoy) V happy (x)
(i) Yx Yy - Study (x) 1 - lucky (x) V pan(x, y)
(ii) - Study (John) ~ lucky (John)
(iv) $\forall x \neg lucly (x) \lor in (a, latting)$
3 Renaming Variable
11) Va - pas (2, history) V - win (2, lotting) V happy (2)
(ii) Vy V2 - Study (y) n - lucky (y) Vpan (y, 2)
(vii) - Study (John) ~ lucky (John)
1 D ( ) \ loft loft lo
(iv) In - lucly (w) V him (w, lotton)



-	NAME: Whant Mouth Class: IT Roll No. 076 Subject: KS
	शानमंજરી સેકન્કરી એન્ડ દાયર સેકન્કરી સ્કૂલ – ભાવનગર
	અહીંથી લખવાનું શરૂ કરો
	All people who are not poor & are smart are hoppy. Those people who read are not studied. John Can read & to realthy. Happy people have exciting lives. Can anyone be found with excelling life?
	> Convert- For
	DAU people who are not poor & are Smart are
	$\forall \alpha : \neg poor(\alpha) \land Smart(\alpha) \rightarrow happy(\alpha)$
	2) Those people its read are not sixed.
	∀a: read(x) → ¬ Stupid (a)
	3) John Can read & is wealthy.
	read (John) ~ wealthy (John)
	4) Happy people have exciting lines.
	Va: happy (a) -> excerting lives (a)
	5) Con anyone be found with exciting life?
-	Fa escriting lines (x)

	Dachward Chaining.
-	Suppose, that John have excepting lines.
	happy(x) -> exiciting live(a)   Lohn  x].
	poor(a) n smart(a)
	hoppy(a).
	0. 0(1)
	$Smart(a) \longrightarrow \neg Stiprd(a) \longrightarrow \neg Stiprd(a)$ $Locicitaliala$
	7 Stupid (John) healthy (John)
	J. Salar Sal
	Juad (John)
	Henre, Our assumptions True.