lecture #7:-

声· P44:--

Do 1-50 P43-45. Exercise.

025:- All (your friends) (core perfect)

for all X, X is your found, X is perfect.

∀x 7, P(x).

X & Set of your RE & your famels].

P(x) z x is partiet.

Not everyone 13 porfiet.

H Not. (for all X, X is person, X is perfect.)

-1 (Xx P(x).)

XE & Persons }.

Jx 7 P(x)

P(x) 2 1 13 parted.

Quantifier + Subject + Predicate. Standard Form z

19:- (a)]x P(x)

X & {2,2,3,4,5}

P(1) V P(2) V P(3) V P(4) V P(5) (f) 7 Hx P(x). = $\exists x \neg P(x).$ = 7P(2) V 7P(2) V7P(3) V 7P(4) V7P(5). 2, y & \$ 1,28. Q30):--] P(213) P(2,3) V P(2,3) V P(3,3). 034:- No one Can Keep Seexet. It is not the true for all X, X is a person, X can keep secret. XE & Persons 7 (Axp(x)) P(x) = X Can Keep Seekt. = 3x 7P(x). Nested Quantifier. Yx Hyp(x1y). X17 E& 1,2,-Ng. Yx Jy P(xy) Ex2, Ex3. P47, P48 (HW). Ex4: P48. Let Q(x1y)= x+y=0. By 4x alxiy) =? F xyER. Yx Jy Q (xxy) Z ? T. 5, -5, 2, 0,5.5

- o.s.

私S

Q(x, y, z) = x+y2 =

Yxyy = Q(xiyiz) =? T

214, Z ER.

=z Xx Yy Q(xiy,z) = ? F

Compound prideates Conversions.

for all x, x has a Computer Of. then existy, y has a Computer and. × & y are founds.

C(x)z a has Computed.

P(x1y) = 2 and y arte found.

sery & & Students ru Your class?

PX12:- "If a person is a female and is a parent then thus person is Some Ones wother".

of for all x, x is a person, x is a fundle and X is a parent then my E of person? there exist y, such that

X 13 the mother of y.

P(x) = 4 4 Parent.

Hx (f(x) A P(x)). -> =y M(x,y).

M (x1y) = x is a mother of y.

Every one has some fained.

for all x, x is a person, then existy, such that x is a friend of y. XIY & & Persons. F(xiy) = x is a find of tx 3y P(riy). Assir Brung Student has asked Proflesson Getors a Austu.

PST

for all X X 13 a Student, X has asked Prof. Getors a

Overston Q(x)= x has asked port. Hw. f 54-58. EX Q2-50 029:-Plxy) z x+yzy. xy ER. = x ty P(xiy) =? T ائی = ایک له ایک = x Sossma Questrus. 2- System Carezturey.
2- Knave Knights.
3- Carvetse, Investe, Centra.
4- Arguments. (le 8-9-10). 5- Quantifiers. (Nested). Ouiz#4.

There is no one, who can fool P(xiy) = x can fool y.

	everybody." Eupressin		P(xiy) = X Can fool y. Riy & Letson 3.
2 " No one	. Can fool	himself/h	ex Self".

