```
(or) Donain of oliscourse: all people
   Predicate denniration: P(x,y):= 'y is x's parent."
      THY ANAR (PUX, UP A PUX, Z))
      == == == == (P(x,y) / P(x,z)) de (Morgans Lan
       = = = x yy yz (¬P(x,y) V¬P(x,z)) de (Norgan's Law
(b) Donoin of oly course: all CSE courses
     Predicate
                   L(x):= " x is 300-level course"
     demination.
                    P(x,1)?::="y is Prerequisite Course of x"
         7 (AXAY ( L(X) -> P(X,y))) ( (AXAYAZ ( L(X) AP(X,y) AP(X,Z))))
    = 7 HXAY(L(X)-> Prany) V - 3xA/B2(L(X)) Prany) (Prany)
                                                                de
    Marganis
   = = = Axy (-(L(x))-) P(x,y))) V Axyy Z (-L(x) V-P(x,y)) V-P(x,Z)) Land
= = = Axy (-(L(x) V P(x,y))) V Axyy Z (-L(x) V-P(x,y)) V-P(x,Z)) implication
    = =xx40(r(x)V-16xn)) AAXANAS(2r(x)) -b(xn) N-b(xn))
                                                      de Monoponis
```