LAB-10 1-Resolution in FOL: 9 Giran the KB or Promises! John likes all kind of food.

Apple and vegetables are food.

Anything anyone eats and not killed is food.

And eats promuts and still alive. Harry eats everything that Anil eats. Anyone who is alive implies not killed Anyone who is not killed implies alive =) Brove by resolution that! John like peanuts. Stop Eliminate implication (a) ta: food (n) -> likes (John, 2) pod capple) A good (vegotables)

42 dy: eats (2, y) A-> killed (2) -> food(y) eds Garil, Peans Indive (Anil) Ix : eats (Anil, x) -) cats (Hony, x) 42: Killed (2) - alive (2) V2: alive (2) -> = 1 killed (2) likes (John, Pranuds)

V2 - good (2) Vlikes (John, 2). Jacob Capple) 1 food (vegetables)

Harly Teats (2,4) 1 + Killed (2) V Jood(y)

eats (Anil, Promits) 1 alive (Anil) Haneats (Ani) a) Voats (Havry, x) 427 [07 Killed (2)) Valisce (29) +2-alive(2) V-Killed(2) h) Likes (John, Peareds) Move regation (-) inwords -@ V27 pod (2) Vlikes (30 ho, 2) Applying Resolution. (1) From (4): Eats (Anil, Peanuts) N-Killed (Anil) (i) From (3):

Sublitude y = Anil , 2 = Peanuts:

TEats (Anil, peanuts) V Killed (Anil) Upod

(peanuts) Resolve with Eats (Anil peanuts): Killed (Anil) V Food (peanuts) Rosolve with Tkilled CANILY. Food (Peanets) (iii) From [i]: Substitute x = Peanuts: Trood (Peanuts) V Likes (John, Peanuts)

Rosalve with Food (Peanuls) (in Negation of goal - Likes CJohn, peanus) is resolved. By resolution, likes (John, pearus) is provenu. 1087 cm 3 19 Halland House V Counce Y Charles of the Cotomony Conditional Alice overess of the Cotomony College of the Cotomony Col : [4] end (5%) colors of a state to of the Character of When Cooks