Lab 8 Statement: If all cats are mammaly all manual statement: If all cats are mammaly all manual whiskers we cat, then Whisker is warn-bodies step 1: FOL Representation Break statement into premises and Represent them 1. All cats are mammale: 42 ((at (x) -> Marring (x) for the transfer to Hald for all 2, 1/2 is a cet, then I've monned 2. All monds do wan boold Hz (Mannal (2) -> Walm Blooded (2) (torall 2, of 2 18 a monthal then I 14 welm bloom 2. Whisker is a cat: Cat (Whiskers). 

slep 2: Redoning & rediction 1. From Premise 1 (+) (cat(a) -> Mannalla) and Cat(Whole)
we use modus ponens to doduce Monmaly (Whiskey) (Since Whis Kee is a cot I all cots de mondy whole is Fran Penne 2 (+x (Mommel(x) > WamBlooded(x)) and Momal (Whisher) we again use modis poers to deduce: Wam Blooded (Whates) (Since Whisker 18 a mond & all mounds are wan blooded.) Slep 3! Conclusion team the 3 prenise We have logically deduced librar Blooded (librarious) whisker is wan blooded