CS 300 Lab April 9, 2015 Prolog Introduction

Student	t 1 Student 2
	Go to the following website and run all of the example queries. http://swish.swi-prolog.org/example/kb.pl
	Instructor
	Edit the facts to say that sam and sue take calculus. Also add facts that say sam and don take physics. DO NOT USE capital letters for the names . Variables in prolog start with a capital letter!
•	Query the system and ask o does don take physics? o does sue take physics? o does sam take calculus?
	Instructor
•	Add a fact that says don has Wahjudi for a class.
	Write a fact that says X has a rough semester if he/she takes calculus and physics (use the jealousy fact as a guide) • For each of don, sam, and sue, ask if they have rough semesters.
	Instructor
	Write a fact that says that X has a rough semester if he/she takes physics and calculus OR has Wahjudi for a class. O Query the system to determine which of don, sam, or sue has a rough semester.
	Instructor
•	Write a query that determines who has a rough semester.
	Instructor

	Instructor
•	Translate the following facts to English man(adam). man(peter). man(paul). woman(marry). woman(eve).
•	Read and understand the following facts: parent(adam,peter). % means adam is parent of peter parent(eve,peter). parent(adam,paul). parent(marry,paul).
•	Using the parent facts listed above, write the following facts in English father(F,C):-man(F),parent(F,C). mother(M,C):-woman(M),parent(M,C). is_father(F):-father(F,_). is_mother(M):-mother(M,_).
	son(S,P):-man(S),parent(P,S). daughter(D,P):-woman(D),parent(P,D).
Instru	ctor