

Example 6 : Own Pet and Love

One more example with Facts, Goals and their English meanings.

Facts	English meanings of Facts, Rules & Goals
cat(fubby).	// fubby is a cat
black_spots(fubby).	// fubby has black spots
dog(figaro).	// figaro is a dog
white_spots(figaro).	// figaro has white spots
Rules	
owns(mary, Pet):- cat(Pet), black_spots(Pet).	// mary owns a Pet if it is a cat and it has black spots
loves(Who, What):-owns(Who, What).	// If someone owns something, he loves it.
Queries / Goals & answers	
?- listing(cat). cat(fubby). cat(coby). true.	// list the all the clauses of predicates 'cat.'
?- listing(owns). owns(mary, A) :- cat(A), black_spots(A). true.	// list the all the clauses of predicates 'owns'.
?- loves(Who, What). Who = mary, What = fubby	// Who loves what?
?- owns(mary, _). true.	// Mary owns something?