% Facts: Defining some animals and their characteristics

animal(cat, mammal).

animal(dog, mammal).

animal(fish, aquatic).

parent(john, sarah).

parent(john, mark).

parent(paul, mary).

parent(sarah, emily).

ancestor(X, Y) :- parent(X, Y).

ancestor(X, Y) :- parent(X, Z), ancestor(Z, Y).

append([], L, L).

append([H|T], L, [H|Result]) :- append(T, L, Result).

add(X, Y, Sum) :- Sum is X+Y.

classify\_number(N, positive) :- N>0.

classify\_number(N, negative) :- N<0.

classify\_number(0, zero).