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# Prolog Introduction

Program:

CODE 1:

woman(mia).

woman(jody).

woman(yolanda).

playsAirGuitar(jody).

party.

Query 1: ?-woman(mia).

Query 2: ?-playsAirGuitar(mia).

Query 3: ?-party.

Query 4: ?-concert.

CODE 2:

happy(yolanda).

listens2music(mia).

Listens2music(yolanda):-happy(yolanda).

playsAirGuitar(mia):-listens2music(mia).

playsAirGuitar(Yolanda):-listens2music(yolanda).

CODE 3:

likes(dan,sally).

likes(sally,dan).

likes(john,brittney).

married(X,Y) :- likes(X,Y) , likes(Y,X).

friends(X,Y) :- likes(X,Y) ; likes(Y,X).

CODE 4:

food(burger).

food(sandwich).

food(pizza).

lunch(sandwich).

dinner(pizza).

meal(X):-food(X).

CODE 5:

owns(jack,car(bmw)).

owns(john,car(chevy)).

owns(olivia,car(civic)).

owns(jane,car(chevy)).

sedan(car(bmw)).

sedan(car(civic)).

truck(car(chevy)).

OUTPUT:

CODE 1:

woman(mia).

true

playsAirGuitar(mia).

true

concert.

procedure "concert" does not exist

CODE 2:

playsAirGuitar(mia).

true

playsAirGuitar(yolanda).

true

CODE 3:

likes(dan,X).

X = sally.

married(dan,sally).

true.

married(johm,brittney).

false

CODE 4:

food(pizza).

true

meal(X),food(X)

X = burger

X = sandwich

dinner(sandwich)

false

CODE 5:

owns(john,X).

X = car(chevy).

owns(john,\_).

true

ownd(Who,car(chevy)).

Who = john.

owns(jane,X),sedan(X).

false.