INTRODUCTION TO PROLOG

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.

OUTPUT:
```
woman(mia)
true
playsguitar(mia)
false
party
true
concert
procedure'concert ' does not exist
```

CODE:2
```
happy(yolanda).
listens2music(mia).
Listens2music(yolanda):-happy(yolanda).
playsAirGuitar(mia):-listens2music(mia).
playsAirGuitar(Yolanda):-listens2music(yolanda).
```

OUTPUT:
```
playsguitar(mia)
true.
playsguitar(yolanda).
true.
```

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).
```

OUTPUT:
```
LIKES(DAN,x).
X=sally.
married(dan,sally).
true
married(john,britney)
false.
```

CODE:4
```
ood(burger).
food(sandwich).
```

```
food(pizza).
lunch(sandwich).
dinner(pizza).
meal(X):-food(X).
```

OUTPUT:

```
food(pixxa)
true
meal(x),food(x)
x=burger.
x=sandwich
dinner(sandwich)
false
```

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:

```
OWNS(JOHBN,X)
X=CAR(CHVY).
OWNS(JOHN,_).
true.
owns(who car(chevy))
who=john.
owns(jane,X),sedan(x).
false.
owns(jane,X),truck(X).
x=car(chevy).
```