

Automata Formal Languages and Logic

(Assignment unit 5)

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Section: 'F'

fact and rules.pl

```
/*
emma likes harry.
harry likes emma.
john likes britney.
vishnudeep likes millie.
*/

likes(emma, harry).
likes(harry, emma).
likes(john, britney).
likes(britney, john).
likes(vishnudeep, millie).
likes(vishal, mustang_gt).
likes(rethwik, lisa).

/*
1.X is a companion of Y if X likes Y and Y
likes X.
2.X is a friend of Y if X likes Y or Y likes X.
*/

companion(X,Y):- likes(X,Y), likes(Y,X).
friendzone(X,Y):- likes(X,Y); likes(Y,X).
```

queries.txt

Queries

1. Does emma likes harry?
2. Is emma a companion of harry?
3. Is john a companion of britney?
4. john got friendzoned by britney?
5. britney got friendzoned by john or not?
6. Is rethwik a companion of lisa?
7. vishal got friendzoned by mustang_gt?
8. Is millie a companion of vishnudeep?

screenshot

```
GNU Prolog console
File Edit Terminal Prolog Help
GNU Prolog 1.4.4 (32 bits)
Compiled May 15 2013, 12:35:56 with i686-w64-mingw32-gcc
By Daniel Diaz
Copyright (C) 1999-2013 Daniel Diaz
| ?- change_directory('C:/Users/hp/OneDrive/Desktop').

yes
| ?- [demo1].
compiling C:/Users/hp/OneDrive/Desktop/demo1.pl for byte code...
C:/Users/hp/OneDrive/Desktop/demo1.pl compiled, 35 lines read - 1664 bytes written, 15 ms

yes
| ?- likes(emma,harry).

yes
| ?- companion(emma,harry).

yes
| ?- companion(john,britney).

yes
| ?- friendzoned(john,britney).
uncaught exception: error(existence_error(procedure,friendzoned/2),top_level/0)
| ?- friendzone(john,britney).

true ?

(15 ms) yes
| ?- friendzone(britney,john).

true ?

(78 ms) yes
| ?- companion(rethwik,lisa).

no
| ?- friendzone(vishal,mustang_gt).

true ?

yes
| ?- companion(vishnudeep,millie).

no
| ?- |
```

