AI Lab Assignment03

Problem Statement: Downloading and using PRolog (KB1 to KB5)

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ROLLNO: **29**BATCH: **02**

Knowledge Base 1

```
women(mia).
women(jody).
women(yolanda).
playsAirGuitar(jody).
party.
```

```
File Edit Browse Compile Prolog Pce Help

Lab3.pl

women (mia).
women (yolanda).
playsAirGuitar(jody).
party.

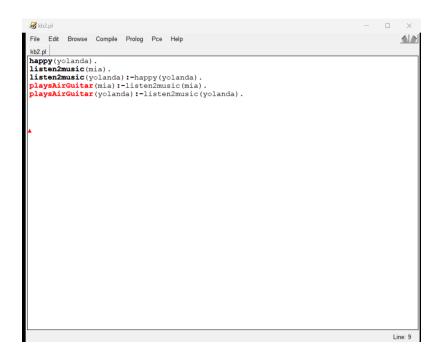
A

Resized to 100 percent

Line: 6
```

```
File Edit Settings Run Debug Help
For built-in help, use ?- help(Topic). or ?- apropos(Word).
?- ['Lab3.pl'].
true.
?- women(mia)
| true.
?- playsAirGuitar(jody).
true.
?- playsAirGuitar(mia).
false.
?- tattoed(jody).
ERROR: Unknown procedure: tattoed/1 (DWIM could not correct goal)
?- party.
true.
?- rockConert.
ERROR: Unknown procedure: rockConert/0 (DWIM could not correct goal)
}
```

```
happy(yolanda).
listen2music(mia).
listen2music(yolanda):-happy(yolanda).
playsAirGuitar(mia):-listen2music(mia).
playsAirGuitar(yolanda):-listen2music(yolanda).
```



```
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Welcome to SWI-Prolog (threaded, 64 bits, version 8.4.3)

SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free s
Please run ?- license. for legal details.

For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?- ['kb2.pl'].

true.

?- playsAirGuitar(mia).

true.

?- playsAirGuitar(yolanda).

true.

?-
```

```
happy(vincent).
listens2music(butch).
playsAirGuitar(vincent):-listens2music(vincent),happy(vincent).
playsAirGuitar(butch):-happy(butch).
playsAirGuitar(butch):-listens2music(butch).
```

```
File Edit Browse Compile Prolog Pce Help

KB3.pl

happy (vincent).
listens2music (butch).
playsAirGuitar (vincent):-listens2music (vincent), happy (vincent).
playsAirGuitar (butch):-happy (butch).
playsAirGuitar (butch):-listens2music (butch).
```

```
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For built-in help, use ?- help(Topic). or ?- apropos(Word).

?- ['KB3.pl].

| . | ;

| ERROR: Stream user_input:7:4 Syntax error: End of file in quoted atom
?- ['KB3.pl'].

true.

?- playsAirGuitar(vincent).

false.

?- playsAirGuitar(butch).

true.

?-
```

```
women(mia).
women(jody).
women(yolanda).
loves(vincent, mia).
loves(marsellus, mia).
loves(pumpkin, honey_bunny).
loves(honey_bunny, pumpkin).
```

```
File Edit Browse Compile Prolog Pce Help

KB4.pl

women (mia).
women (jody).
women (yolanda).
loves (vincent, mia).
loves (marsellus, mia).
loves (pumpkin, honey_bunny).
loves (honey_bunny, pumpkin).
```

```
SWI-Prolog (AMD64, Multi-threaded, version 8.4.3)
 File Edit Settings Run Debug Help
 For online help and background, visit https://www.swi-prolog.org
 For built-in help, use ?- help(Topic). or ?- apropos(Word).
 ?- women(X).
 ERROR: Unknown procedure: women/1 (DWIM could not correct goal)
 ?- ['KB4.pl'].
 true.
 ?- women(X).
 X = mia;
 X = jody;
 X = yolanda.
 ?-;
 ERROR: Unknown procedure: (;)/0
 ERROR: However, there are definitions for:
 ERROR:
               (;)/2
 ?- loves(marsellus,X), women(X).
 X = mia.
 ?- loves(pumpkin,X), women(X).
```

```
loves(vincent,mia).
loves(marsellus,mia).
loves(pumpkin, honey_bunny).
loves(honey_bunny, pumpkin).
jealous(X,Y):- loves(X,Z), loves(Y,Z).
```

```
File Edit Browse Compile Prolog Pce Help

KB5.pl

loves(vincent, mia).
loves(pumpkin, honey_bunny).
loves(honey_bunny, pumpkin).
jealous(X,Y):- loves(X,Z), loves(Y,Z).
```

