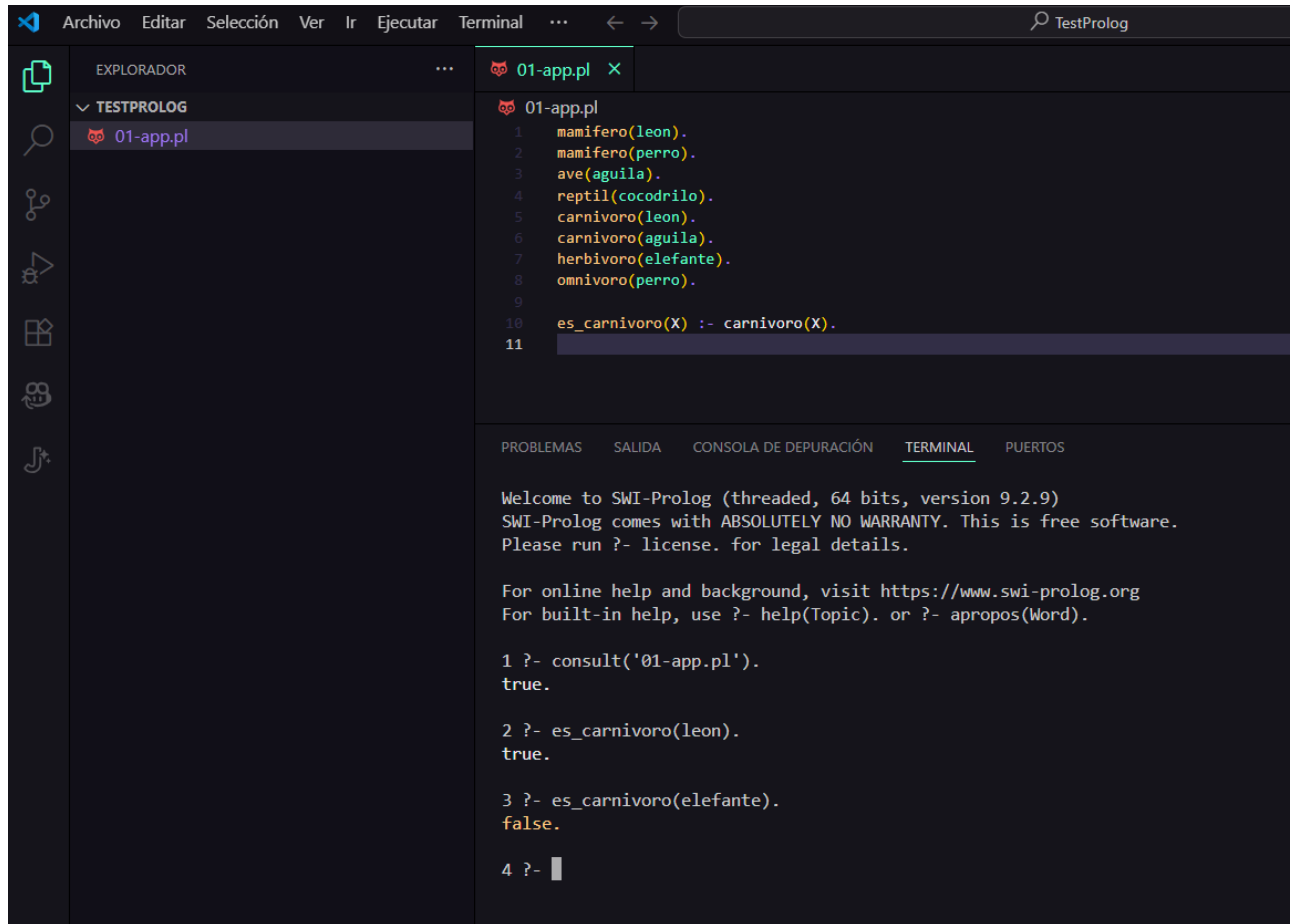


PRACTICA: laboratorio

Practica 1



The screenshot shows the SWI-Prolog IDE interface. The top menu bar includes 'Archivo', 'Editar', 'Selección', 'Ver', 'Ir', 'Ejecutar', 'Terminal', and 'TestProlog'. The left sidebar shows the 'EXPLORADOR' (Explorer) with a folder named 'TESTPROLOG' containing a file '01-app.pl'. The main editor window displays the contents of '01-app.pl' with the following Prolog code:

```
1  mamifero(leon).
2  mamifero(perro).
3  ave(agulla).
4  reptil(cocodrilo).
5  carnivoros(leon).
6  carnivoros(agulla).
7  herbivoros(elefante).
8  omnivoros(perro).
9
10 es_carnivoros(X) :- carnivoros(X).
11
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
Welcome to SWI-Prolog (threaded, 64 bits, version 9.2.9)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
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).

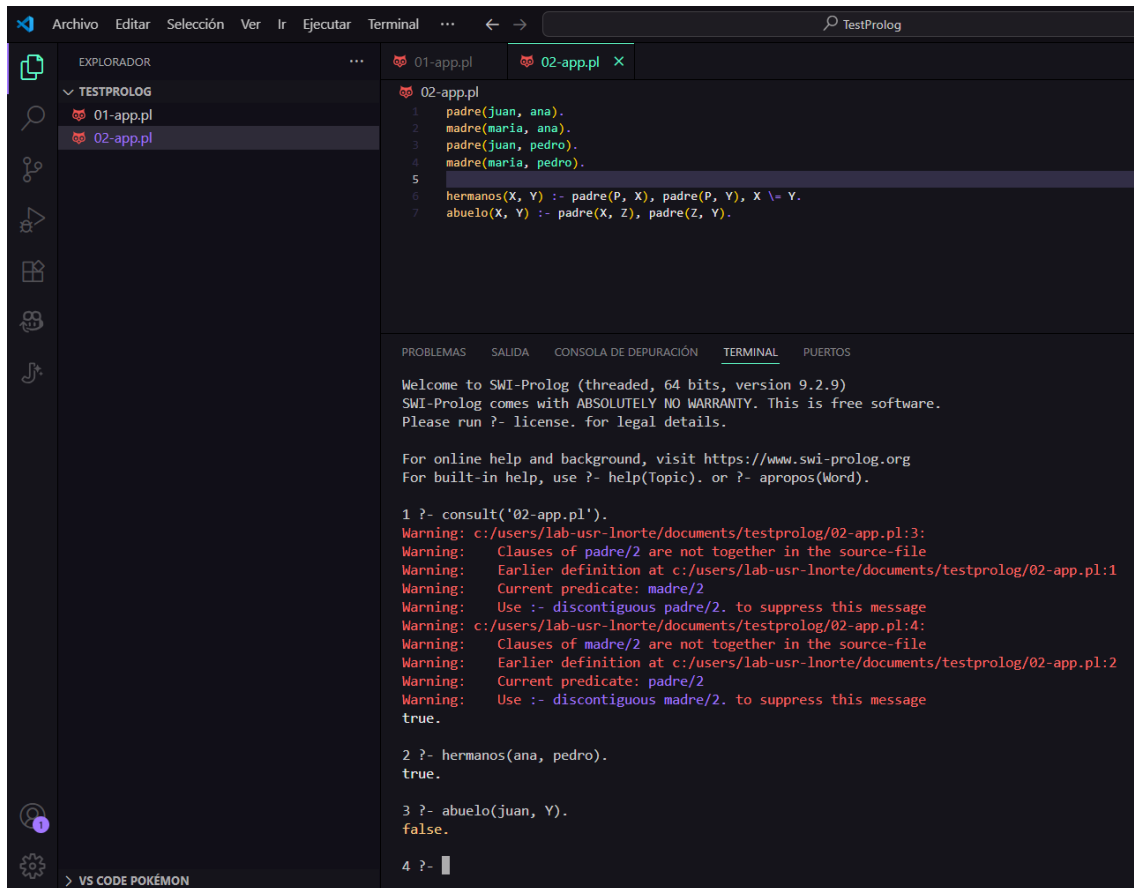
1 ?- consult('01-app.pl').
true.

2 ?- es_carnivoros(leon).
true.

3 ?- es_carnivoros(elefante).
false.

4 ?-
```

Practica 2



The screenshot shows the VS Code editor with the file explorer on the left displaying 'TESTPROLOG' containing '01-app.pl' and '02-app.pl'. The main editor shows '02-app.pl' with the following Prolog code:

```
1 padre(juan, ana).
2 madre(maria, ana).
3 padre(juan, pedro).
4 madre(maria, pedro).
5
6 hermanos(X, Y) :- padre(P, X), padre(P, Y), X \= Y.
7 abuelo(X, Y) :- padre(X, Z), padre(Z, Y).
```

The terminal at the bottom shows the execution of the program:

```
Welcome to SWI-Prolog (threaded, 64 bits, version 9.2.9)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
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).

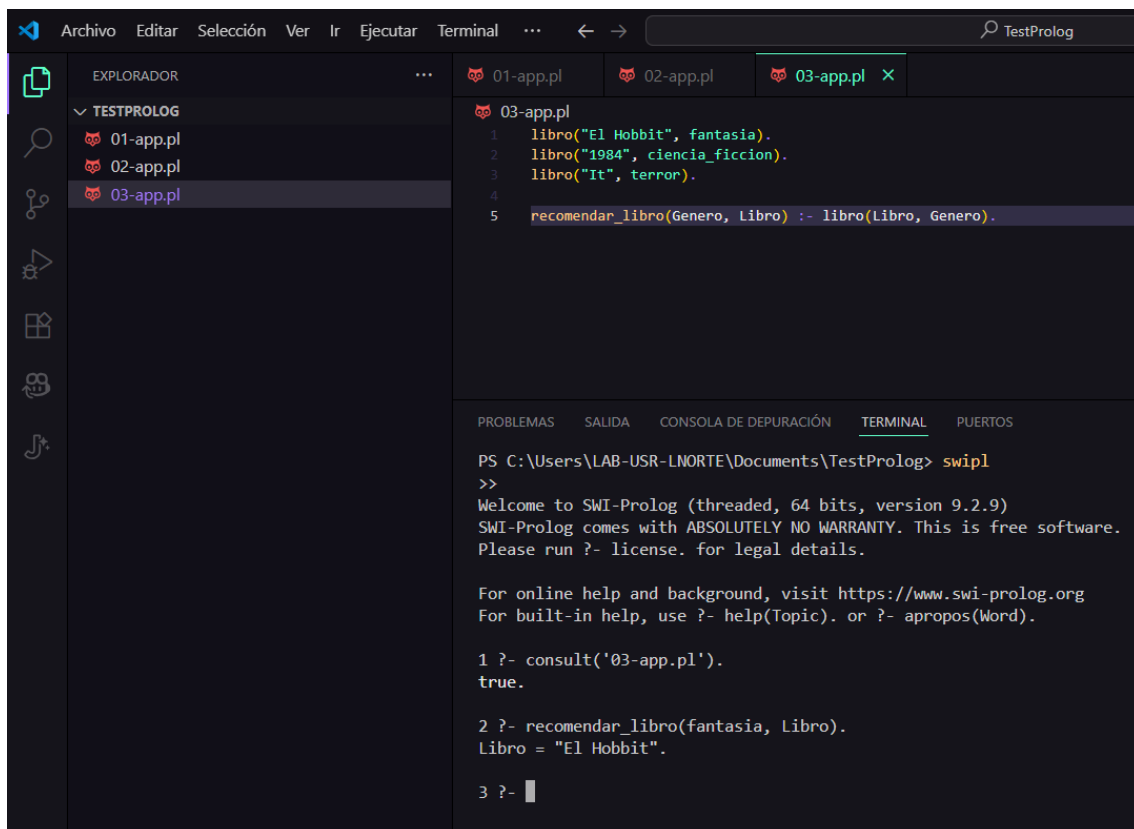
1 ?- consult('02-app.pl').
Warning: c:/users/lab-usr-lnorte/documents/testprolog/02-app.pl:3:
Warning:   Clauses of padre/2 are not together in the source-file
Warning:   Earlier definition at c:/users/lab-usr-lnorte/documents/testprolog/02-app.pl:1
Warning:   Current predicate: madre/2
Warning:   Use :- discontiguous padre/2. to suppress this message
Warning: c:/users/lab-usr-lnorte/documents/testprolog/02-app.pl:4:
Warning:   Clauses of madre/2 are not together in the source-file
Warning:   Earlier definition at c:/users/lab-usr-lnorte/documents/testprolog/02-app.pl:2
Warning:   Current predicate: padre/2
Warning:   Use :- discontiguous madre/2. to suppress this message
true.

2 ?- hermanos(ana, pedro).
true.

3 ?- abuelo(juan, Y).
false.

4 ?-
```

Practica 3



The screenshot shows the VS Code editor with the file explorer on the left displaying 'TESTPROLOG' containing '01-app.pl', '02-app.pl', and '03-app.pl'. The main editor shows '03-app.pl' with the following Prolog code:

```
1 libro("El Hobbit", fantasia).
2 libro("1984", ciencia_ficcion).
3 libro("It", terror).
4
5 recomendar_libro(Genero, Libro) :- libro(Libro, Genero).
```

The terminal at the bottom shows the execution of the program:

```
PS C:\Users\LAB-USR-LNORTE\Documents\TestProlog> swipl
>>
Welcome to SWI-Prolog (threaded, 64 bits, version 9.2.9)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
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).

1 ?- consult('03-app.pl').
true.

2 ?- recomendar_libro(fantasia, Libro).
Libro = "El Hobbit".

3 ?-
```

Practica 4

The screenshot shows the SWI-Prolog IDE interface. The top menu bar includes 'Archivo', 'Editar', 'Selección', 'Ver', 'Ir', 'Ejecutar', 'Terminal', and a search icon. The Explorer view on the left shows a project named 'TESTPROLOG' with four files: '01-app.pl', '02-app.pl', '03-app.pl', and '04-app.pl'. The Editor view on the right shows the code for '04-app.pl'.

```
04-app.pl
1  invertir([], []).
2  invertir([H|T], L) :- invertir(T, R), append(R, [H], L).
3
4
5  eliminar_duplicados([], []).
6  eliminar_duplicados([H|T], R) :- member(H, T), eliminar_duplicados(T, R).
7  eliminar_duplicados([H|T], [H|R]) :- not(member(H, T)),
8  eliminar_duplicados(T, R).
```

The Terminal view at the bottom shows the following output:

```
PS C:\Users\LAB-USR-LNORTE\Documents\TestProlog> swipl
>>
Welcome to SWI-Prolog (threaded, 64 bits, version 9.2.9)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
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).

1 ?- consult('04-app.pl').
true.

2 ?- invertir([1,2,3], X).
X = [3, 2, 1].

3 ?- eliminar_duplicados([1,2,2,3,3,3], X).
X = [1, 2, 3] .

4 ?- 
```