

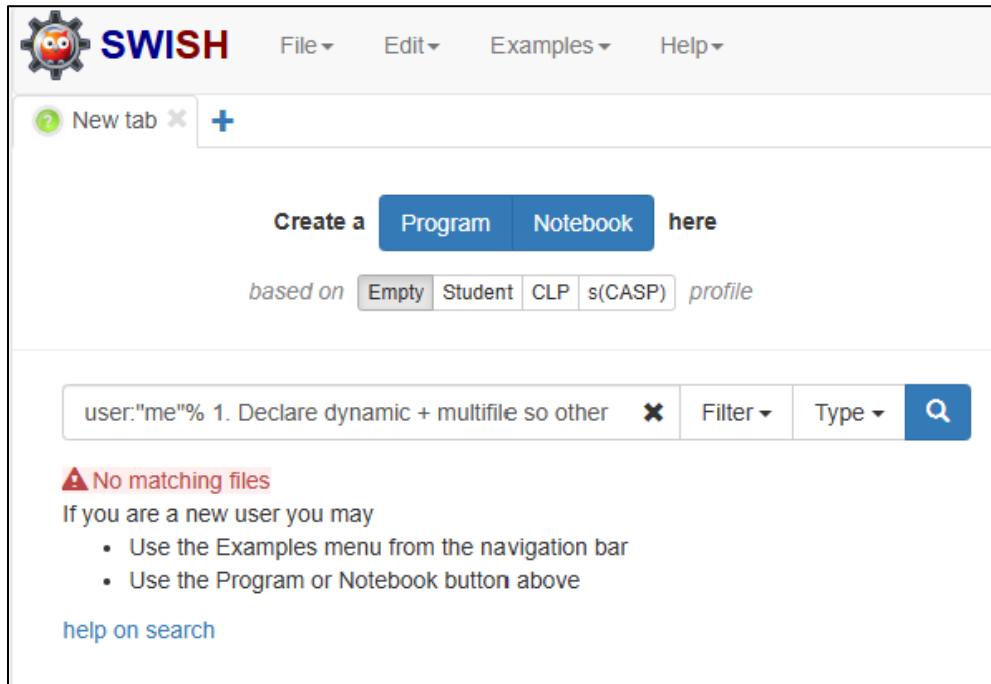
## Instructions for running manhattan.pl

Get the contexts of:

[https://github.com/MapRock/assemblage-of-artificial-intelligence/blob/main/src/products\\_of\\_system\\_2/manhattan\\_cocktail.pl](https://github.com/MapRock/assemblage-of-artificial-intelligence/blob/main/src/products_of_system_2/manhattan_cocktail.pl)

Navigate to the prolog test site: <https://swish.swi-prolog.org/>

Click Program:



Paste the content of manhattan\_cocktail.pl:



The screenshot shows a SWISH interface with a program editor window. The URL in the address bar is https://swish.swi-prolog.org. The window title is "Program". The code in the editor is:

```
1 manhattan_type(classic).
2 manhattan_type(dry).
3 manhattan_type(perfect).
4
5 vermouth_for(classic, sweet_vermouth).
6 vermouth_for(dry, dry_vermouth).
7 vermouth_for(perfect, half_sweet_half_dry).
8
9 base_for_manhattan(rye_whiskey).
10
11 bitters_for_manhattan(angostura_bitters).
12
13 garnish_for_manhattan(maraschino_cherry).
14
15 % Copy manhattan_options.pl and manhattan_cocktail.pl to c:/temp/.
16
17 recipe_steps(Type, Steps) :-
18     base_for_manhattan(Base),
19     vermouth_for(Type, Vermouth),
20     bitters_for_manhattan(Bitters),
21     garnish_for_manhattan(Garnish),
22
23     Steps = [
24         add(2, oz, Base),
25         add(1, oz, Vermouth),
26         add('2-3', dashes, Bitters),
27         fill_with(ice),
28         stir('20-30_seconds'),
29         strain(into_glass),
30         garnish(Garnish)
31
32     ].|
```

Towards the lower right, enter the test query:

- **recipe\_steps(classic, Steps)**
- **recipe\_steps(dry, Steps)**

Click Run:

The screenshot shows the SWI-Prolog IDE interface. At the top, there are three tabs in a stack:

- `recipe(dry,Steps)`
- `procedure `recipe(A,B)' does not exist`
- `recipe_steps(dry,Steps)`

The bottom tab is currently active:

```
Steps =  
[add(2.oz, rye_whiskey), add(1.oz, dry_vermouth), add('2-3', dashes, angostura_bitters),  
fill_with(ice), stir('20-30_seconds'), strain(into_glass), garnish(maraschino_cherry)]
```

In the command-line area, the user has typed:

```
?- recipe_steps(classic ,Steps)
```

Below the command line, there are navigation buttons: Examples, History, Solutions, and a Run! button.

## Download swipl

### 1. Only download from the official site

Go to: <https://www.swi-prolog.org/download/stable>

For Windows you want something like:

swipl-9.x.x-win64.exe

Do **not** download it from random mirrors or file sites.

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### 2. Verify the download before installing

Windows has a built-in way to confirm the file hasn't been altered.

Open **PowerShell** and run:

Get-FileHash swipl-9.x.x-win64.exe

Compare the hash to the one listed on the SWI-Prolog download page (if provided).

If the hash matches, the file hasn't been tampered with.

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### **3. Install**

*When installing, be sure to add to PATH.*

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### **5. After installing**

Open a terminal (I used Powershell) and type:

swipl

You should see something like:

Welcome to SWI-Prolog

?-

Then load your file:

consult('manhattan\_recipe.pl').