

```
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060:~$ gedit steve.pl
cs@cs-OptiPlex-3060:~$ swipl
Welcome to SWI-Prolog (Multi-threaded, 64 bits, Version 7.2.3)
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and you are welcome to redistribute it under certain conditions.
Please visit http://www.swi-prolog.org for details.

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

?- [steve].
true.

?- likes(steve,X).
X = bk301.

?-
```

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WAP to find "W
Program".

```
AI List of Programs with Solution|Input --> AI List of Programs 2014 with solution
cs@cs-OptiPlex-3060: ~
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [john].
true.

?- exciting_life(john).
true.

?-
```

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```
cs@cs-OptiPlex-3060:~$ gedit banana.pl
cs@cs-OptiPlex-3060:~$ swipl
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [banana].
true.

?- getfood(state(atdoor,nearwindow,onfloor,hasnot)).
In state(atdoor,nearwindow,onfloor,hasnot)
try climb
In state(atdoor,nearwindow,onfloor,hasnot)
try walk(atdoor,_G845)
In state(_G845,nearwindow,onfloor,hasnot)
try climb
In state(nearwindow,nearwindow,onfloor,hasnot)
try push(nearwindow,_G853)
In state(_G853,_G853,onfloor,hasnot)
try climb
In state(middle,middle,onbox,hasnot)
try grasp
true
```

```
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```

```
cs@cs-OptiPlex-3060:~$ gedit banana.pl
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Please visit http://www.swi-prolog.org for details.

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

?- [banana].
true.

?- getfood(state(atdoor,nearwindow,onfloor,hasnot)).
In state(atdoor,nearwindow,onfloor,hasnot)
  try climb
In state(atdoor,nearwindow,onfloor,hasnot)
  try walk(atdoor,_G845)
In state(_G845,nearwindow,onfloor,hasnot)
  try climb
In state(nearwindow,nearwindow,onfloor,hasnot)
  try push(nearwindow,_G853)
In state(_G853,_G853,onfloor,hasnot)
  try climb
In state(middle,middle,onbox,hasnot)
  try grasp
true
```

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Powered by Quad Camera

```
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060:~$ gedit concate.pl
cs@cs-OptiPlex-3060:~$ swipl
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [concat].
true.

?- concat([1,2,4,5], [34,6,7],L).
L = [1, 2, 4, 5, 34, 6, 7].  
te

?- concat([1,2,4,5], [4,2,6,7],L).
L = [1, 2, 4, 5, 4, 2, 6, 7].
    []
?- 
```

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concat([],L1,L1).

```
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060: ~$ swipl
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [towers].
true.

?- move(2, left_peg, right_peg, centre_peg).
Move top disk from left_peg to centre_peg
Move top disk from left_peg to right_peg
Move top disk from centre_peg to right_peg
true
```

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```
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060:~$ gedit marcus.pl
cs@cs-OptiPlex-3060:~$ swipl
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [marcus].
true.

?- loyalto(marcus,caesar).
false.

?- hate(marcus,caesar).
true.

?- 
```

Output:-

11 ?- [q10].

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```
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060:~$ gedit bill.pl
cs@cs-OptiPlex-3060:~$ swipl
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For help, use ?- help(Topic). or ?- apropos(Word).

?- [bill].
true.

?- likes(john,peanut).
true .

?- eat(sue,X).
X = peanut.

?-

```

↓ 1 ?- [q8].
% q8 compiled 0.00

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```
cs@cs-OptiPlex-3060: ~
```

```
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```

```
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and you are welcome to redistribute it under certain conditions.
Please visit http://www.swi-prolog.org for details.
```

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

```
?- [sam].
```

```
true.
```

```
?- likes(sam,Food).
```

```
Food = dahl ;
```

```
Food = tandoori ;
```

```
Food = kurma ;
```

```
Food = chow_mein ;
```

```
Food = chop_suey ;
```

```
Food = sweet_and_sour ;
```

```
Food = pizza ;
```

```
Food = spaghetti ;
```

```
Food = chips.
```

```
?- likes(sam,curry).
```

```
false.
```

```
?- likes(sam,chips).
```

```
true.
```

```
?-
```

```
I
```

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A screenshot of a terminal window titled "AI List of Programs with solution.pdf — AI List of Programs 2014 with solution". The terminal shows the following session:

```
cs@cs-OptiPlex-3060: ~$ gedit calico.pl
cs@cs-OptiPlex-3060: ~$ swipl
Welcome to SWI-Prolog (Multi-threaded, 64 bits, Version 7.2.3)
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Please visit http://www.swi-prolog.org for details.

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

?- [calico].
true.

?- likes_to_eat(pussy,X).
X = charlie ;
X = herb.

?- 
```

The output of the query `?- likes_to_eat(pussy,X).` is highlighted in red, showing `X = charlie ; X = herb.`

At the bottom left, there is a watermark: "Shot on OnePlus" and "Powered by Quad Camera".

Output:-

```
AI List of Programs with solution.pdf — AI List of Programs 2014 with solution
cs@cs-OptiPlex-3060: ~
cs@cs-OptiPlex-3060:~$ gedit lucky.pl
cs@cs-OptiPlex-3060:~$ swipl
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and you are welcome to redistribute it under certain conditions.
Please visit http://www.swi-prolog.org for details.

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

?- [lucky].
true.

?- happy(A).
A = john.

?- happy(john).
true.

?-
0 sec
```

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