```
!apt-get install -y swi-prolog
```

```
Unpacking swi-prolog-x (8.4.2+dfsg-2ubuntu1) ...
Selecting previously unselected package swi-prolog.
Preparing to unpack .../24-swi-prolog_8.4.2+dfsg-2ubuntu1_amd64.deb ...
Unpacking swi-prolog (8.4.2+dfsg-2ubuntu1) ...
Setting up libtool (2.4.6-15build2) ...
Setting up libarchive-zip-perl (1.68-1) ...
Setting up libdebhelper-perl (13.6ubuntu1) ...
Setting up gettext-base (0.21-4ubuntu4) ...
Setting up libossp-uuid16:amd64 (1.6.2-1.5build9) ...
Setting up swi-prolog-core (8.4.2+dfsg-2ubuntu1) ...
update-alternatives: using /usr/bin/swipl to provide /usr/bin/prolog (prolog) in auto mode
Setting up autopoint (0.21-4ubuntu4) ...
Setting up dwz (0.14-1build2) ...
Setting up swi-prolog-core-packages (8.4.2+dfsg-2ubuntu1) ...
Setting up libarchive-cpio-perl (0.10-1.1) ...
Setting up debugedit (1:5.0-4build1) ...
Setting up swi-prolog-nox (8.4.2+dfsg-2ubuntu1) ...
Setting up libsub-override-perl (0.09-2) ...
Setting up libsys-hostname-long-perl (1.5-2) ...
Setting up libfile-stripnondeterminism-perl (1.13.0-1) ...
Setting up swi-prolog-x (8.4.2+dfsg-2ubuntu1) ...
Setting up gettext (0.21-4ubuntu4) ...
Setting up swi-prolog-doc (8.4.2+dfsg-2ubuntu1) ...
Setting up intltool-debian (0.35.0+20060710.5) ...
Setting up dh-autoreconf (20) ...
Setting up libmail-sendmail-perl (0.80-1.1) ...
Setting up dh-strip-nondeterminism (1.13.0-1) ...
Setting up swi-prolog (8.4.2+dfsg-2ubuntu1) ...
Setting up po-debconf (1.0.21+nmu1) ...
Setting up debhelper (13.6ubuntu1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a symbolic link

Processing triggers for man-db (2.10.2-1) ...
```

```
!pip install pyswip
```

```
Collecting pyswip
  Downloading pyswip-0.3.2-py3-none-any.whl.metadata (5.0 kB)
Downloading pyswip-0.3.2-py3-none-any.whl (35 kB)
Installing collected packages: pyswip
Successfully installed pyswip-0.3.2
```

```
!swipl --version
```

```
SWI-Prolog version 8.4.2 for x86_64-linux
```

```
from pyswip import Prolog, registerForeign
prolog = Prolog()
```

```
prolog2 = Prolog()
```

```
prolog2.assertz("man(marcus)")
prolog2.assertz("pompeian(marcus)")
```

```
prolog2.assertz("roman(X) :- pompeian(X)")
prolog2.assertz("ruler(caesar)")
prolog2.assertz("hate(X, caesar) :- roman(X)")
prolog2.assertz("loyalto(X, caesar) :- roman(X)")
prolog2.assertz("loyalto(X,f1(X))")
prolog2.assertz("loyalto(X,Y):- not(man(X),roman(Y),tryassassinate(X,Y))")
prolog2.assertz("tryassassinate(marcus, caesar)")
result = list(prolog2.query("hate(marcus, caesar)"))

print("hate(marcus, caesar) :", bool(result))
```

    hate(marcus, caesar) : True