

Code →

chatbot.pl

```
% Some birds can fly
↑ bird(tweety).
can_fly(X) :- bird(X), X = tweety.

% Bob likes ice cream and cake
likes(bob, ice_cream).
likes(bob, cake).

% If it rains, then I will stay inside
rain.
stay_inside :- rain.

% No humans can breathe underwater
human(john).
cannot_breathe_underwater(X) :- human(X).

% Every apple is a fruit
apple(granny_smith).
fruit(X) :- apple(X).

% Some students passed the exam
student(alice).
passed_exam(X) :- student(X), X = alice.

% A dog chased the cat
dog(rover).
cat(mittens).
chased(rover, mittens).

% If it is raining, then I will take an umbrella
take_umbrella :- rain.

% No reptiles can fly
reptile(lizard).
cannot_fly(X) :- reptile(X), X = lizard.
```

Output →

```
% c:/Users/vivek/Documents/Prolog/chatBot.pl compiled 0.00 sec, 21 clauses
?- mammal(fido).
true.

?- can_fly(tweety).
true.

?- likes(bob, ice_cream).
true.

?- likes(ice_cream, bob).
false.

?- likes(bob, fruits).
false.

?- rain.
true.

?- take_umbrella.
true.

?- rain.
true.
```