Prolog: Asking Questions

Eivind Jahren

March 6, 2013

```
hello_world :- write('Hello World'), nl,
               halt.
```

```
male(ola).
male(olav).
male(petter).

female(kari).
female(siri).

parent(ola, olav).
parent(ola, siri).
parent(kari, olav).
parent(kari, siri).
sibling(ola, petter).
sibling(petter, ola).
```

```
father(A, B) :-
    parent(A, B),
    male(A).

mother(A, B) :-
    parent(A, B),
    female(A).

sibling(A, B) :-
    parent(C, A),
    parent(C, B),
    A \= B.

brother(A, B) :-
    male(A),
    sibling(A, B).

sister(A, B) :-
    female(A),
    sibling(A,B).
```

Example 1

```
?- uncle(petter,olav).
true.
```

Example 1

```
?- uncle(petter,olav).
true.
```

Example 2

```
?- uncle(X,olav).
X=petter.
```

Example 1

```
?- uncle(petter,olav).
true.
```

Example 2

```
?- uncle(X,olav).
X=petter.
```

Example 2

```
?- uncle(X,Y).
X = petter,
Y = olav ;
X = petter,
Y = siri ;
false.
```