









Instantiation of variables are written in curly brackets.











 Rule specifies things that are true if some condition is satisfied.

For all X and Y, Y is an offspring of X if X is a parent of Y.

?-offspring(Y,X):-parent(X,Y).

Chapter 16: Logic Programming

11





















Chapter 16: Logic Programming



## **Constructing Expressions**

There is a clear difference between:

- is, which takes an expression (on the right), evaluates it, and unifies the result with its argument on the left.
- = :=, which evaluates two expressions and compares the results.
- =, which unifies two terms (which need not be expressions and, if expressions, will not be evaluated).

25

Chapter 16: Logic Programming

## Constructing Expressions: examples

?- What is 2+3.
What = 5 % Evaluates 2+3, unify result with What

?- What = 2+3
What = 2+3
\* Unify What with the expression 2+3

Chapter 16: Logic Programming

26