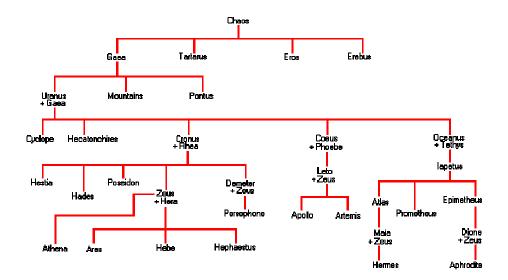
```
1:
Prolog
Prolog
                                     (clauses)
              (atoms)
        \Diamond
                               (integers)
                                                                  (float)
        \Diamond
                       (symbols) \\
        george
        mary
        socrates
        john_Lennon
        car25
                             (strings),
        double quotes, .. "Hello", "This is a dog", "John", "Mary",
                                      :-, =, >, !, < .
                              (Compound terms)
       student(george, papadakis),
       address(student (george,papadakis), thessaloniki, adr(gravias, 16)
                                                             (lists)
                                                                       ),
      [a, b, c]
       [john, mary, jim, edward, elen]
      [a, [b, c]]
      [[a, b], c]
                    (variables)
      X
      Answer
       Input
       _3_blind_mice
                                        . . Java
                                                    C,
                                                              Prolog
                                                                                           (facts)
      (rules).
                                                            Prolog
```

(Prolog)

2014-15



```
parent (cronus, hestia).
parent (cronus, hades).
parent (cronus, poseidon).
parent (cronus, zeus).
parent (cronus, demeter).
parent (rhea, hestia).
parent (rhea, hades).
parent (rhea, poseidon).
parent(rhea, zeus).
parent (rhea, demeter).
parent (zeus, athena).
parent (zeus, ares).
parent (zeus, hebe).
parent (zeus, hephaestus).
parent (zeus, persephone).
parent (hera, athena).
parent (hera, ares).
parent (hera, hebe) .
parent (hera, hephaestus).
parent (demeter, persephone).
male (cronus).
male(hades).
male (poseidon).
male (zeus).
male (ares).
male(hephastus).
female(rhea).
female (hestia).
female(hera).
female (demeter) .
female (persephone) .
female (athena) .
female(hebe).
diff (X, Y) :- % ΠΡΟΣΟΧΗ: Δύο διαφορετικές μεταβλητές μπορούν
      X = Y. %
                           να έχουν την ίδια τιμή.
```

```
male(zeus).
     female(persephone).
                  zeus persephone
                                                      male() female()
    (.).
             . . :
     son(X,Y) :-
          male(X),
          parent(Y,X).
                                  X () Y
                                                            ( ) Y
                                                        X
  X.
                            son(X,Y)
                                                               male(X)
            parent(Y,X).
                                                  (AND).
     parent(X,Y) :-
          father(X,Y).
     parent(X,Y) :-
         mother(X,Y).
              , ()X
                                   ) Y
                                                     X ( ) Y,
      X ( ) Ŷ.
       (OR).
                         Prolog
                        Prolog
                                                                  Prolog
                                     , . .:
     ?- parent(X, zeus).
                                                        Prolog :
     X = cronus
(yes) (no), . .
     ?- parent(rhea, zeus).
     ?- parent(zeus, poseidon).
     No
```

```
SWI-Prolog.
1)
                                                                                   , «
                                  \mathbf{\tilde{o}http://www.swi-prolog.org/} \rightarrow \mathbf{Download}\ddot{o}
2)
                 editor
                                                    Prolog
                                                                                        , ..gods.pl.
3)
                    SWI-Prolog
                                          «gods.pl»
                                    gods.pl
4)
       father(X,Y)
       mother(X,Y)
       son(X,Y)
       daughter(X,Y)
       grandfather(X,Y)
       grandmother(X,Y)
       brother(X,Y)
       sister(X,Y)
       aunt(X,Y)
       uncle(X,Y)
5)
                     SWI-Prolog
            \tilde{o}File \rightarrowReload modified files\tilde{o}.
                                                                                          Prolog.
```