

## Exp 20

% Facts: planet(Name, OrderFromSun, Type, Moons).

planet(mercury, 1, terrestrial, 0).

planet(venus, 2, terrestrial, 0).

planet(earth, 3, terrestrial, 1).

planet(mars, 4, terrestrial, 2).

planet(jupiter, 5, gas\_giant, 79).

planet(saturn, 6, gas\_giant, 83).

planet(uranus, 7, ice\_giant, 27).

planet(neptune, 8, ice\_giant, 14).

% Rule: is it an inner planet? (Order <= 4)

inner\_planet(Name):-

planet(Name, Order, \_, \_),

Order <= 4.

% Rule: is it an outer planet? (Order >= 5)

outer\_planet(Name):-

planet(Name, Order, \_, \_),

Order >= 5.

% c:/users/administrator/documents/prolog/planets compiled 0.00 sec, 0 clauses

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?- planet(Name, \_, terrestrial, \_).  
Name = mercury ■