**Exp20 : Write a Prolog Program for PLANETS DB**

**Input:**

% Prolog Database of Planets

% Facts: planet(Name, DistanceFromSun\_MillionKm, Diameter\_Km, Moons)

planet(mercury, 57.9, 4879, 0).

planet(venus, 108.2, 12104, 0).

planet(earth, 149.6, 12756, 1).

planet(mars, 227.9, 6792, 2).

planet(jupiter, 778.6, 142984, 79).

planet(saturn, 1433.5,120536, 83).

planet(uranus, 2872.5, 51118, 27).

planet(neptune, 4495.1, 49528, 14).

% Rule: Find planets with more than N moons

planets\_with\_more\_moons\_than(N, Planet) :-

planet(Planet, \_, \_, Moons),

Moons > N.

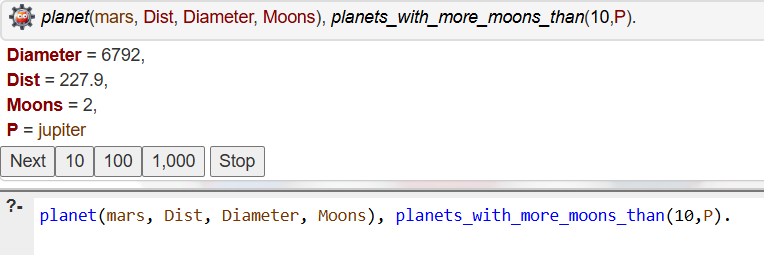
% Rule: Find planets closer to the Sun than a given distance

planets\_closer\_than(Distance, Planet) :-

planet(Planet, Dist, \_, \_),

Dist < Distance.

**OUTPUT:**

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