

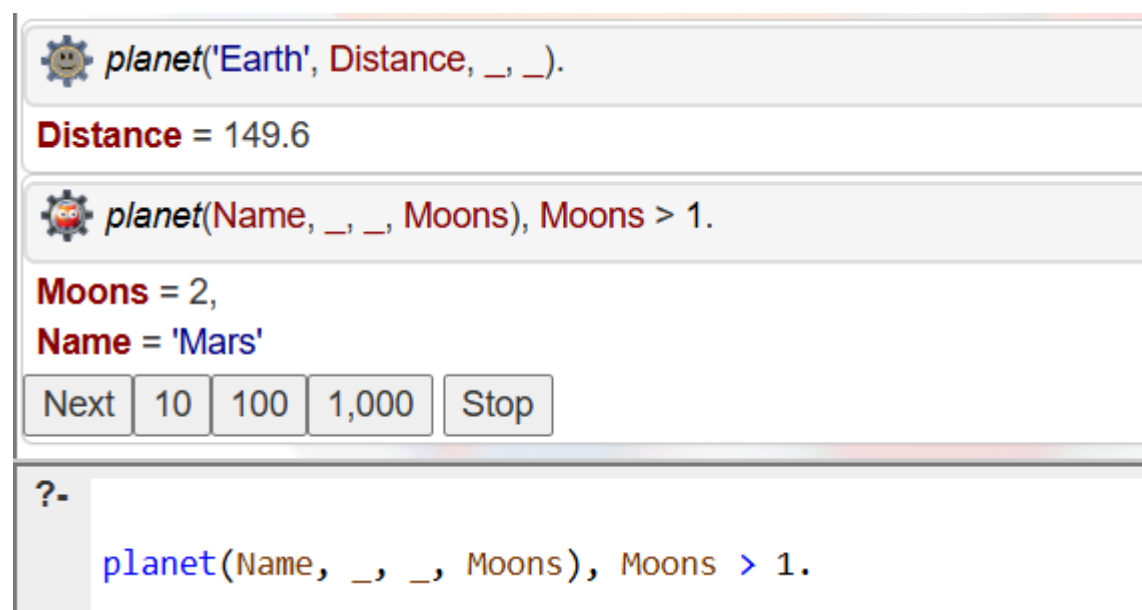
EXPERIMENT:20 Write a Prolog Program for PLANETS DB.

PROGRAM:

```
% planet(Name, DistanceFromSun_million_km, Diameter_km, Moons).
```

```
planet('Mercury', 57.9, 4879, 0).  
planet('Venus', 108.2, 12104, 0).  
planet('Earth', 149.6, 12742, 1).  
planet('Mars', 227.9, 6779, 2).  
planet('Jupiter', 778.6, 139820, 95).  
planet('Saturn', 1433.5, 116460, 83).  
planet('Uranus', 2872.5, 50724, 27).  
planet('Neptune', 4495.1, 49244, 14).
```

OUTPUT:



The screenshot shows a Prolog interpreter window with two queries and their results. The first query is `planet('Earth', Distance, _, _).` and the result is `Distance = 149.6`. The second query is `planet(Name, _, _, Moons), Moons > 1.` and the result is `Moons = 2, Name = 'Mars'`. Below the results, there are buttons for 'Next', '10', '100', '1,000', and 'Stop'. At the bottom, there is a prompt `?-` followed by the query `planet(Name, _, _, Moons), Moons > 1.`

```
planet('Earth', Distance, _, _).  
Distance = 149.6  
planet(Name, _, _, Moons), Moons > 1.  
Moons = 2,  
Name = 'Mars'  
Next 10 100 1,000 Stop  
?-  
planet(Name, _, _, Moons), Moons > 1.
```

```
Accuracy: 1.0
|--- petal width (cm) <= 0.80
|   |--- class: 0
|--- petal width (cm) > 0.80
|   |--- petal length (cm) <= 4.75
|       |--- petal width (cm) <= 1.65
|           |--- class: 1
|           |--- petal width (cm) > 1.65
|               |--- class: 2
|       |--- petal length (cm) > 4.75
|           |--- petal width (cm) <= 1.75
|               |--- petal length (cm) <= 4.95
|                   |--- class: 1
|                   |--- petal length (cm) > 4.95
|                       |--- petal width (cm) <= 1.55
|                           |--- class: 2
|                           |--- petal width (cm) > 1.55
|                               |--- petal length (cm) <= 5.45
|                                   |--- class: 1
|                                   |--- petal length (cm) > 5.45
|                                       |--- class: 2
|           |--- petal width (cm) > 1.75
|               |--- petal length (cm) <= 4.85
|                   |--- sepal width (cm) <= 3.10
|                       |--- class: 2
|                       |--- sepal width (cm) > 3.10
|                           |--- class: 1
|               |--- petal length (cm) > 4.85
|                   |--- class: 2
```

...Program finished with exit code 0

Press ENTER to exit console.

