

Lab Assignment:- 01

@ I21ma010

Questions:-

1)1. Write the following facts (English Statement) in Prolog. Now, use these statements as knowledge based for answering the following Queries. Use following facts: i) occupation/2 ii) address/2 iii) salary/2 for knowledge base creation.

1. Marry is a teacher.
2. Mili is a doctor.
3. Bunny is a teacher
4. Gini is a doctor.
5. Marry lives in Surat.
6. Bunny lives in Vadodra.
7. Gini lives in Ahemdabad.
8. Mili lives in Rajkot.
9. Marry earns fortythousand rupees.
- 10.Mili earns fiftythousand rupees.
- 11.Bunny earns seventythousand rupees.
- 12.Gini earns sixtythousand rupees.



SWISH

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Examples ▾




Program ×




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1 % Facts
2 occupation(marry, teacher).
3 occupation(mili, doctor).
4 occupation(bunny, teacher).
5 occupation(gini, doctor).
6
7 address(marry, surat).
8 address(bunny, vadodara).
9 address(gini, ahmedabad).
10 address(mili, rajkot).
11
12 salary(marry, 40000).
13 salary(mili, 50000).
14 salary(bunny, 70000).
15 salary(gini, 60000).
16
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Queries:



1. Find all teachers who lives in Surat.

 <code>occupation(X, teacher).</code>
X
marry
bunny
?- occupation(X, teacher).

2. Find all doctors who earns sixtythousand rupees.

 <code>salary(X,60000).</code>
X
gini
?- salary(X,60000).

3. Find all teachers who doesnot live in Ahmedabad.

 <code>occupation(X, teacher), address(X, City), City \= ahmedabad.</code>		
X	City	
marry	surat	1
bunny	vadodara	2
		
?- occupation(X, teacher), address(X, City), City \= ahmedabad.		

4. Find all teacher who lives in Rajkot.

occupation(X, teacher), address(X, rajkot).

false

occupation(X, teacher), address(X, city), city=rajkot.

false

?- occupation(X, teacher), address(X, city), city=rajkot.

5. Find all doctors who lives in Ahmedabad and earns sixtythousand Rupees.

occupation(X, doctor), address(X, ahmedabad), salary(X, 60000).

X	
gini	1

?- occupation(X, doctor), address(X, ahmedabad), salary(X, 60000).

6. Find all teachers who lives in Surat or Vadodra.

occupation(X, teacher), address(X, surat); address(X, vadodara).

X	
marry	1
bunny	2

?- occupation(X, teacher), address(X, surat); address(X, vadodara).