

what is the name of samia's brother? satcho Knowledge Query Section Base

Program-1:

```
first.pl
File Edit Browse
               Compile Prolog Pce
                               Help
name (shakil) .
name (satcho) .
man (adam) .
girl (jerry) .
like (blue) .
like (adam, pizza).
like (satcho, banana) .
eat (adam, apple).
                                     comma sign (,)
   factName(object1, object2)
     users/lashedut alam/desktop/prolog codes/litst compiled 0.00 Sec. 0
     name(shakil).
true.
?- name(satcho).
true.
% c:/users/rashedul alam/desktop/prolog codes/first compiled 0.00 sec. 0
     like(adam, pizza).
true.
?- like(adam.pizza).
ERROR: Type error: 'dict' expected, found 'adam' (an atom)
ERROR: In:
         [11] throw(error(type_error(dict,adam),_1130))
[9] '$dicts':'.'(adam,pizza,_1170) at c:/program files/swipl/b
ERROR:
ERROR:
ERROR:
           [8] '<meta-call' (user: (.....)) <foreign>
ERROR:
           [7] (user)
ERROR:
ERROR: Note: some frames are missing due to last-call optimization.
ERROR: Re-run your program in debug mode (:- debug.) to get more detail.
% c:/users/rashedul alam/desktop/prolog codes/first compiled 0.00 sec, 0
     like(adam, pizza).
true.
```

Program-2:

```
var3.pl
File Edit
          Browse Compile
                         Prolog Pce Help
var3.pl
parent (pam, bob) .
parent (tom, bob) .
parent (tom, liz).
parent (bob, ann) .
parent (pat, jim) .
                                  pam
                                                         ann
parent (tom, kim).
                                             bob
parent (bob, pat) .
                                                         pat
                                  tom
```

```
SWI-Prolog (AMD64, Multi-threaded, version 8.0.3)
File Edit Settings Run Debug Help
Welcome to SWI-Prolog (threaded, 64 bits, version 8.0.3)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license, for legal details.
For online help and background, visit http://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).
?- parent(bob, ann).
true.
?- parent(tom, liz).
true.
?- parent(tom, loz).
false.
?- parent(tom, X).
X = bob ;
X = liz ;
X = kim.
?- parent(A,bob).
A = pam ;
A = tom.
?-
```

Program-3:

Consider the following Facts:
FatherOf(joe), paul).
FatherOf (joe,mary).
MotherOf(jane,paul).
MotherOf(jane,mary).
male(paul).
male(joe).
female(mary).
female(jane).

- Check whether the following statements are true or false through Prolog query
 - a. Paul is Joe's Father
 - b. Jane is Mary's mother
 - c. Mary is male.
 - d. Paul is male
 - 2. Find out the following people:
 - a. Joe's children
 - b. Jane's children
 - c. Male family members
 - d. Female family members

```
task1.pl
       Edit
               Browse Compile
File
task1.pl
fatherOf (joe, paul) .
fatherOf (joe, mary).
motherOf(jane,paul).
motherOf (jane, mary) .
male (paul) .
male (joe) .
female (mary) .
female (jane) .
ricase rum :- ricemse, ror regar devaris.
For online help and background, visit http://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).
     fatherOf(paul, joe).
?- motherOf(jane, mary).
true.
?- male(mary).
false.
?- male(paul).
true.
?-
     /- maie(mary).
     false.
     ?- male(paul).
     true.
     ?- fatherOf(joe,Child).
     Child = paul ;
Child = mary.
     ?- motherOf(jane,X).
X = paul;
X = mary.
     ?- male(Male).
     Male = paul ;
Male = joe.
     ?- female(X).
     X = mary ;
```

X = jane.

?-

Program-4: conjunction

Conjunction: (or, and)

Facts are given below:

```
emperor(turza, simulation).
emperor(sadhin, html).
emperor(udoy, sleep).
emperor(rajesh, love).
emperor(minhaj, superman).
emperor(turza, css).
emperor(tanu, deeplearning).
emperor(bipro, css).
emperor(munna, html).
emperor(tanvir, poet).
emperor(arif, math).
```

```
likes(ismail,dating).
likes(rajesh,dating).
likes(minhaj,photograph).
```

Questions:

- 1. Who are the emperor of HTML and CSS?
- 2. Who are the emperor of HTML or CSS?
- 3. Who are the emperor of love and likes dating?
- 4. Show all the characteristics of minhaj.

Ι

11/10-1-11

```
File Edit Browse Compile Prolog Pce Help
emperor(turza, simulation).
emperor (sadhin, html) .
emperor (udoy, sleep) .
emperor (rajesh, love) .
emperor (minhaj, superman).
emperor (turza, css).
emperor(tanu, deeplearning).
emperor (bipro, css) .
emperor (sadhin, css) .
 mperor (munna, html).
emperor (tanvir, poet) .
emperor (arif, math) .
likes (ismail, dating) .
likes (rajesh, dating).
likes (minhaj, photograph) .
     Questions:
      1. Who are the emperor of HTML and CSS?
      2. Who are the emperor of HTML or CSS?
      3. Who are the emperor of love and likes dating?
```

4. Show all the characteristics of minhaj.

```
File Edit Settings Run Debug Help
Welcome to SWI-Prolog (threaded, 64 bits, version 8.0.3)
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Please run ?- license. for legal details.
For online help and background, visit http://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word)
% c:/users/rashedul alam/desktop/prolog codes/con1 compiled 0.02 s
lauses
      emperor(X, html), emperor(X, css)
false.
Warning: c:/users/rashedul alam/desktop/prolog codes/con1.pl:15:
Clauses of emperor/2 are not together in the source-file
            Earlier definition at c:/users/rashedul alam/desktop/pro
            Current predicate: likes/2
Use: - discontiguous emperor/2, to suppress this message
 % c:/users/rashedul alam/desktop/prolog codes/con1 compiled 0.00 s
lauses
 % c:/users/rashedul alam/desktop/prolog codes/con1 compiled 0.00 s
      emperor(X, html), emperor(X, css)
X = sadhin
 ?- emperor(X,html);emperor(X,css)
X = sadhin
X = munna ;
X = bipro
X = sadhin
?- emperor(X, love), likes(X, dating).
X = rajesh
 ?- emperor(minhaj,X);likes(minhaj,X).
X = photograph.
    emperor(minhaj,X),likes(minhaj,X).
```

Program-5: anonymous variable



```
con1.pl
File Edit
         Browse
                Compile
                         Prolog
                               Pce
                                   Help
con1.pl
emperor (turza, simulation) .
emperor (sadhin, html).
emperor (udoy, sleep) .
emperor (rajesh, love) .
emperor (minhaj, superman) .
emperor (turza, css).
emperor (tanu, deeplearning) .
emperor (bipro, css) .
emperor (sadhin, css) .
emperor (munna, html).
emperor (tanvir, poet) .
emperor (arif, math) .
likes (ismail, dating) .
likes (rajesh, dating)
likes (minhaj, photograph) .
```

```
% c:/users/rashedul alam/de
lauses
?-
| emperor(Name.css).
Name = turza;
Name = bipro;
Name = sadhin.
?- emperor(_.css).
true;
true;
true;
true.
?- emperor(turza,TOPIC).
TOPIC = simulation;
TOPIC = css. ]
?- emperor(turza,_).
true;
true;
```