

## **Program 23**

### **Family tree**

#### **AIM :**

To implement a prolog program to print a family tree

#### **PROGRAM :**

```
male(john).  
male(peter).  
male(michael).  
female(mary).  
female(sarah).  
female(anne).
```

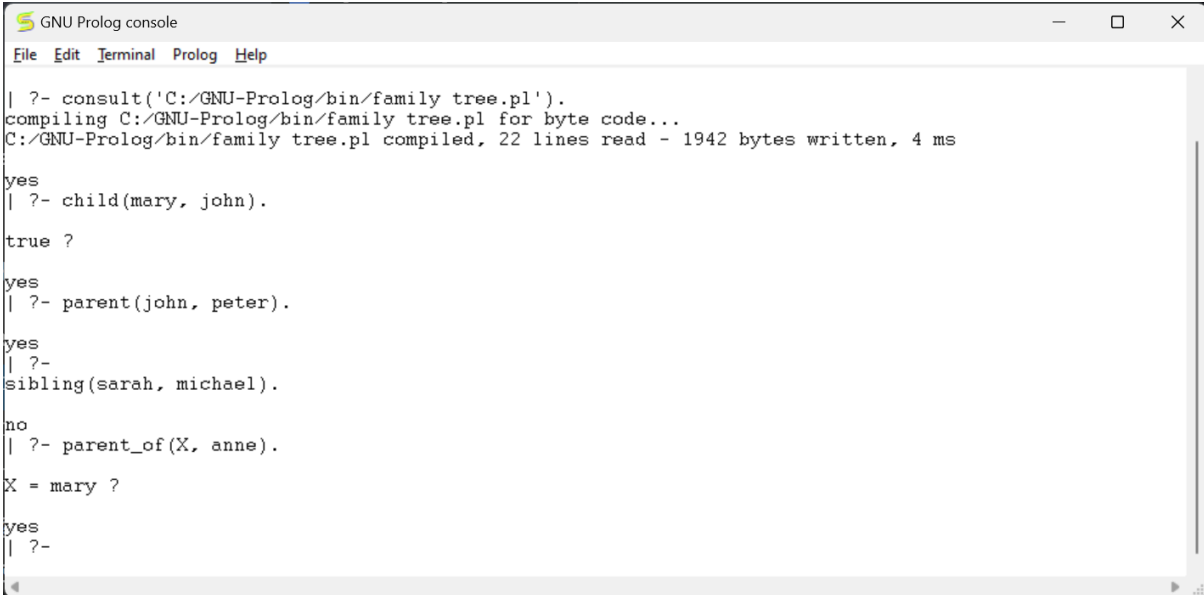
```
parent(john, mary).  
parent(john, peter).  
parent(mary, sarah).  
parent(mary, anne).  
parent(peter, michael).
```

```
child(Child, Parent) :-  
    parent(Parent, Child).
```

```
parent_of(Parent, Child) :-  
    child(Child, Parent).
```

```
sibling(X, Y) :-  
    parent(Z, X),  
    parent(Z, Y),  
    X \= Y.
```

## OUTPUT:



```
GNU Prolog console
File Edit Terminal Prolog Help

| ?- consult('C:/GNU-Prolog/bin/family tree.pl').
compiling C:/GNU-Prolog/bin/family tree.pl for byte code...
C:/GNU-Prolog/bin/family tree.pl compiled, 22 lines read - 1942 bytes written, 4 ms

yes
| ?- child(mary, john).

true ?

yes
| ?- parent(john, peter).

yes
| ?-
sibling(sarah, michael).

no
| ?- parent_of(X, anne).

X = mary ?

yes
| ?-
```

## RESULT:

The Program has successfully been executed.