

## Program 28

### Medical diagnosis

#### AIM :

To implement a prolog program for Medical Diagnosis

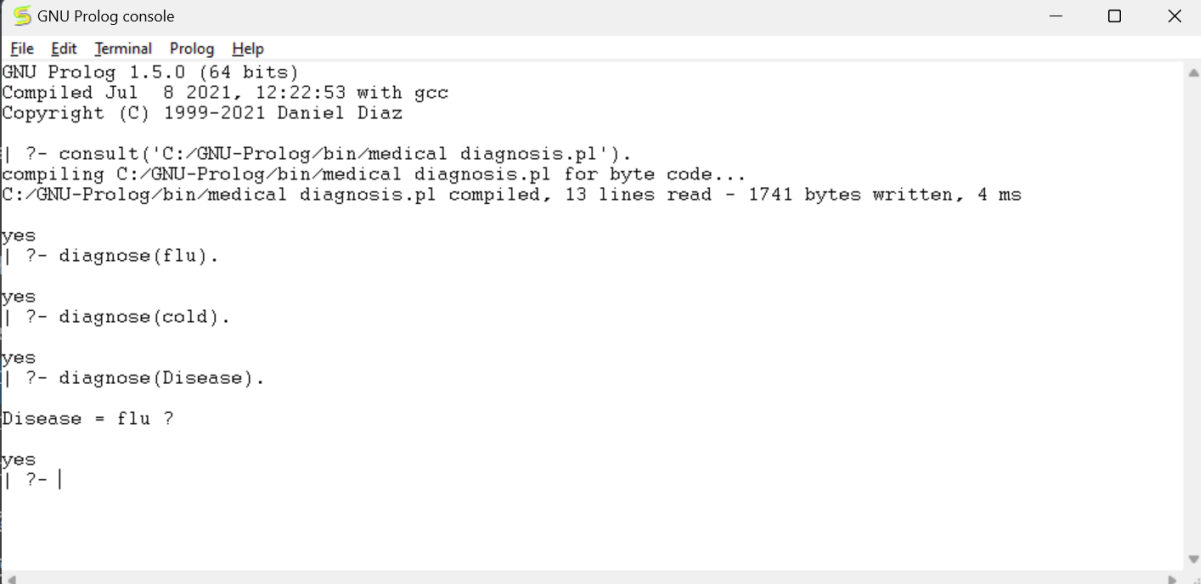
#### PROGRAM :

```
symptom(fever).  
symptom(cough).  
symptom(headache).  
symptom(runny_nose).  
symptom(sore_throat).
```

```
disease(flu, [fever, cough, headache]).  
disease(cold, [cough, runny_nose, sore_throat]).
```

```
diagnose(Disease) :-  
    disease(Disease, Symptoms),  
    findall(Symptom, (symptom(Symptom), member(Symptom, Symptoms)),  
PatientSymptoms),  
    length(PatientSymptoms, SymptomCount),  
    SymptomCount >= 2.
```

#### OUTPUT:



```
GNU Prolog console  
File Edit Terminal Prolog Help  
GNU Prolog 1.5.0 (64 bits)  
Compiled Jul  8 2021, 12:22:53 with gcc  
Copyright (C) 1999-2021 Daniel Diaz  
  
| ?- consult('C:/GNU-Prolog/bin/medical diagnosis.pl').  
compiling C:/GNU-Prolog/bin/medical diagnosis.pl for byte code...  
C:/GNU-Prolog/bin/medical diagnosis.pl compiled, 13 lines read - 1741 bytes written, 4 ms  
  
yes  
| ?- diagnose(flu).  
  
yes  
| ?- diagnose(cold).  
  
yes  
| ?- diagnose(Disease).  
  
Disease = flu ?  
  
yes  
| ?- |
```

#### RESULT:

The Program has successfully been executed.