

```
go:-
hypothesis(Disease),
write('It is suggested that the patient has '),
write(Disease),
nl,
undo;
write('Sorry, the system is unable to identify the disease'),nl,undo.
```

```
hypothesis(cold) :-
symptom(headache),
symptom(runny_nose),
symptom(sneezing),
symptom(sore_throat),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Tylenol'),
nl,
write('2: Panadol'),
nl,
write('3: Nasal spray'),
nl,
write('Please weare warm cloths because'),
nl,!.
```

```
hypothesis(influenza) :-
symptom(sore_throat),
symptom(fever),
symptom(headache),
symptom(chills),
symptom(body_ache),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Tamiflu'),
nl,
write('2: Panadol'),
nl,
write('3: Zanamivir'),
nl,
write('Please take a warm bath and do salt gargling because'),
nl,!.
```

```
hypothesis(typhoid) :-
symptom(headache),
symptom(abdominal_pain),
symptom(poor_appetite),
symptom(fever),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Chloramphenicol'),
nl,
write('2: Amoxicillin'),
nl,
```

```
write('3: Ciprofloxacin'),
nl,
write('4: Azithromycin'),
nl,
write('Please do complete bed rest and take soft diet because'),
nl,!.
```

```
hypothesis(chicken_pox) :-
symptom(rash),
symptom(body_ache),
symptom(fever),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Varicella vaccine'),
nl,
write('2: Immunoglobulin'),
nl,
write('3: Acetomenaphin'),
nl,
write('4: Acyclovir'),
nl,
write('Please do have oatmeal bath and stay at home because'),
nl.
```

```
hypothesis(measles) :-
symptom(fever),
symptom(runny_nose),
symptom(rash),
symptom(conjunctivitis),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Tylenol'),
nl,
write('2: Aleve'),
nl,
write('3: Advil'),
nl,
write('4: Vitamin A'),
nl,
write('Please get rest and use more liquid because'),
nl,!.
```

```
hypothesis(malaria) :-
symptom(fever),
symptom(sweating),
symptom(headache),
symptom(nausea),
symptom(vomiting),
symptom(diarrhea),
nl,
write('Advices and Sugestions:'),
nl,
write('1: Aralen'),
```

```
nl,  
write('2: Qualaquin'),  
nl,  
write('3: Plaquenil'),  
nl,  
write('4: Mefloquine'),  
nl,  
write('Please do not sleep in open air and cover your full skin  
because'),  
nl,!.
```

```
ask(Question) :-  
write('Does the patient has the symptom '),  
write(Question),  
write('? : '),  
read(Response),  
nl,  
( (Response == yes ; Response == y)  
->  
assert(yes(Question)) ;  
assert(no(Question)), fail).  
:- dynamic yes/1,no/1.
```

```
symptom(S) :-  
(yes(S)  
->  
true ;  
(no(S)  
->  
fail ;  
ask(S))).
```

```
undo :- retract(yes(_)),fail.  
undo :- retract(no(_)),fail.  
undo.
```

Output:

Welcome to SWI-Prolog (threaded, 64 bits, version 9.0.4)
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For online help and background, visit <https://www.swi-prolog.org>
For built-in help, use `?- help(Topic).` or `?- apropos(Word).`

`?- go.`

Does the patient has the symptom headache? : y.

Does the patient has the symptom runny_nose? : |: y.

Does the patient has the symptom sneezing? : |: y.

Does the patient has the symptom sore_throat? : |: y.

Advices and Sugestions:

1: Tylenol

2: Panadol

3: Nasal spray

Please weare warm cloths because

It is suggested that the patient has cold
true .

`?- go.`

Does the patient has the symptom headache? : n.

Does the patient has the symptom sore_throat? : |: n.

Does the patient has the symptom rash? : |: y.

Does the patient has the symptom body_ache? : |: y.

Does the patient has the symptom fever? : |: y.

Advices and Sugestions:

1: Varicella vaccine

2: Immunoglobulin

3: Acetomenaphin

4: Acyclovir

Please do have oatmeal bath and stay at home because

It is suggested that the patient has chicken_pox
true .

`?-`