

## CODE -

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),

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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 8.0.2)  
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For online help and background, visit <http://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? : |: n.

Does the patient has the symptom sore\_throat? : |: y.

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

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

Does the patient has the symptom body\_ache? : |: y.

Advices and Sugestions:

1: Tamiflu

2: Panadol

3: Zanamivir

Please take a warm bath and do salt gargling because

It is suggested that the patient has influenza

true .

?-