

CODE:

go:-

```
hypothesis(Disease),  
write('I believe that the patient have'),  
write(Disease),  
nl,  
write('TAKE CARE '),  
undo.
```

/*Hypothesis that should be tested*/

hypothesis(cold) :- cold, !.

hypothesis(flu) :- flu, !.

hypothesis(typhoid) :- typhoid, !.

hypothesis(measles) :- measles, !.

hypothesis(malaria) :- malaria, !.

hypothesis(unknown). /* no diagnosis*/

/*Hypothesis Identification Rules*/

cold :-

```
verify(headache),  
verify(runny_nose),  
verify(sneezing),  
verify(sore_throat),  
write('Advices and Sugestions:'),  
nl,
```

```
write('1: Tylenol/tab'),  
nl,  
write('2: panadol/tab'),  
nl,  
write('3: Nasal spray'),  
nl,  
write('Please weare warm cloths Because'),  
nl.
```

flu :-

```
verify(fever),  
verify(headache),  
verify(chills),  
verify(body_ache),  
write('Advices and Sugestions:'),  
nl,  
write('1: Tamiflu/tab'),  
nl,  
write('2: panadol/tab'),  
nl,  
write('3: Zanamivir/tab'),  
nl,  
write('Please take a warm bath and do salt gargling Because'),  
nl.
```

typhoid :-

```
verify(headache),
```

```
verify(abdominal_pain),
verify(poor_appetite),
verify(fever),
write('Advices and Sugestions:'),
nl,
write('1: Chloramphenicol/tab'),
nl,
write('2: Amoxicillin/tab'),
nl,
write('3: Ciprofloxacin/tab'),
nl,
write('4: Azithromycin/tab'),
nl,
write('Please do complete bed rest and take soft Diet Because'),
nl.
```

measles :-

```
verify(fever),
verify(runny_nose),
verify(rash),
verify(conjunctivitis),
write('Advices and Sugestions:'),
nl,
write('1: Tylenol/tab'),
nl,
write('2: Aleve/tab'),
nl,
```

```
write('3: Advil/tab'),  
nl,  
write('4: Vitamin A'),  
nl,  
write('Please Get rest and use more liquid Because'),  
nl.
```

malaria :-

```
verify(fever),  
verify(sweating),  
verify(headache),  
verify(nausea),  
verify(vomiting),  
verify(diarrhea),  
write('Advices and Sugestions:'),  
nl,  
write('1: Aralen/tab'),  
nl,  
write('2: Qualaquin/tab'),  
nl,  
write('3: Plaquenil/tab'),  
nl,  
write('4: Mefloquine'),  
nl,  
write('Please do not sleep in open air and cover your full skin Because'),  
nl.
```

```

/* how to ask questions */
ask(Question) :-
write('Does the patient have following symptom:'),
write(Question),
write('? '),
read(Response),
nl,
( (Response == yes ; Response == y)
->
assert(yes(Question)) ;
assert(no(Question)), fail).

```

:- dynamic yes/1,no/1.

```

/*How to verify something */

```

```

verify(S) :-

```

```

(yes(S)

```

```

->

```

```

true ;

```

```

(no(S)

```

```

->

```

```

fail ;

```

```

ask(S))).

```

```

/* undo all yes/no assertions*/

```

```

undo :- retract(yes(_)),fail.

```

```

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

```

```

undo.

```