domains

disease,indication = symbol

Patient,name = string

predicates

hypothesis(string,disease)

symptom(name,indication)

response(char)

go

clauses

go :-

write("What is the patient's name? "),

readln(Patient),

hypothesis(Patient,Disease),

write(Patient,"probably has ",Disease,"."),nl.

go :-

write("Sorry, I don't seem to be able to"),nl,

write("diagnose the disease."),nl.

symptom(Patient,fever) :-

write("Does ",Patient," have a fever (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,rash) :-

write("Does ",Patient," have a rash (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,headache) :-

write("Does ",Patient," have a headache (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,runny\_nose) :-

write("Does ",Patient," have a runny\_nose (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,conjunctivitis) :-

write("Does ",Patient," have a conjunctivitis (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,cough) :-

write("Does ",Patient," have a cough (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,body\_ache) :-

write("Does ",Patient," have a body\_ache (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,chills) :-

write("Does ",Patient," have a chills (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,sore\_throat) :-

write("Does ",Patient," have a sore\_throat (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,sneezing) :-

write("Does ",Patient," have a sneezing (y/n) ?"),

response(Reply),

Reply='y'.

symptom(Patient,swollen\_glands) :-

write("Does ",Patient," have a swollen\_glands (y/n) ?"),

response(Reply),

Reply='y'.

hypothesis(Patient,measles) :-

symptom(Patient,fever),

symptom(Patient,cough),

symptom(Patient,conjunctivitis),

symptom(Patient,runny\_nose),

symptom(Patient,rash).

hypothesis(Patient,german\_measles) :-

symptom(Patient,fever),

symptom(Patient,headache),

symptom(Patient,runny\_nose),

symptom(Patient,rash).

hypothesis(Patient,flu) :-

symptom(Patient,fever),

symptom(Patient,headache),

symptom(Patient,body\_ache),

symptom(Patient,conjunctivitis),

symptom(Patient,chills),

symptom(Patient,sore\_throat),

symptom(Patient,runny\_nose),

symptom(Patient,cough).

hypothesis(Patient,common\_cold) :-

symptom(Patient,headache),

symptom(Patient,sneezing),

symptom(Patient,sore\_throat),

symptom(Patient,runny\_nose),

symptom(Patient,chills).

hypothesis(Patient,mumps) :-

symptom(Patient,fever),

symptom(Patient,swollen\_glands).

hypothesis(Patient,chicken\_pox) :-

symptom(Patient,fever),

symptom(Patient,chills),

symptom(Patient,body\_ache),

symptom(Patient,rash).

hypothesis(Patient,measles) :-

symptom(Patient,cough),

symptom(Patient,sneezing),

symptom(Patient,runny\_nose).

response(Reply) :-

readchar(Reply),