Family Relations

wife(hussein,amina).

mother(amina,amira).

mother(amina,amany).

mother(amina,amna).

mother(amina,hassan).

mother(amina,hossam).

father(hussein,amira).

father(hussein,amany).

father(hussein,amna).

father(hussein,hassan).

father(hussein,hossam).

parent(X,Y):-

mother(X,Y) ; father(X,Y).

married(X,Y) :- wife(X,Y).

sibling(X,Y) :-

mother(Out1,X),

father(Out2,X),

mother(Out3,Y),

father(Out4,Y),

Out1 is Out3,Out2 is Out4.

Medical Diagnosis

domains

disease,indication,name = symbol

predicates

hypothesis(name,disease)

symptom(name,indication)

clauses

symptom(amit,fever).

symptom(amit,rash).

symptom(amit,headache).

symptom(amit,runn\_nose).

symptom(kaushal,chills).

symptom(kaushal,fever).

symptom(kaushal,hedache).

symptom(dipen,runny\_nose).

symptom(dipen,rash).

symptom(dipen,flu).

hypothesis(Patient,measels):-

symptom(Patient,fever),

symptom(Patient,cough),

symptom(Patient,conjunctivitis),

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,chills).

hypothesis(Patient,common\_cold) :-

symptom(Patient,headache),

symptom(Patient,sneezing),

symptom(Patient,sore\_throat),

symptom(Patient,chills),

symptom(Patient,runny\_nose).

hypothesis(Patient,mumps) :-

symptom(Patient,fever),

symptom(Patient,swollen\_glands).

hypothesis(Patient,chicken\_pox) :-

symptom(Patient,fever),

symptom(Patient,rash),

symptom(Patient,body\_ache),

symptom(Patient,chills).