

% Facts representing symptoms

symptom(fever).

symptom(cough).

symptom(fatigue).

% Rules for diagnosing diseases based on symptoms

% Rule 1: If the patient has fever and cough, diagnose "flu"

flu :- symptom(fever), symptom(cough).

% Rule 2: If the patient has fever and fatigue, diagnose "cold"

cold :- symptom(fever), symptom(fatigue).

% Rule 3: If the patient has cough and fatigue, diagnose "chronic fatigue"

chronic_fatigue :- symptom(cough), symptom(fatigue).

% Rule 4: If the patient has all three symptoms, diagnose "severe flu"

severe_flu :- symptom(fever), symptom(cough), symptom(fatigue).

% Diagnostic query

diagnose :- flu -> write('Diagnosis: Flu');

 cold -> write('Diagnosis: Cold');

 chronic_fatigue -> write('Diagnosis: Chronic Fatigue');

 severe_flu -> write('Diagnosis: Severe Flu');

 write('Diagnosis: Unknown').