Implementation of Backward Chairing

Atm:

2c

To implement backward chaining

Scenario:

a nedical expert system designed to diagnose disease based on patient symptoms. The system uses backward chaining to infer whether a patient has a specific disease by checking rules and knowledge list.

Procederre defense the knowledge bare with rule

define known facts.

define the backward charming function. Queres whether the partient has flutter

Execution:

. flu sequires cough sy fever

· cough is a fact -> true

· fever needs some throat

. Some_throat is a fact - true

. Some both one preven flu has been diagnosed. Rnewledge bases "flu": [[Cough", "fever"]] "fever": [["Some_throat"]] } fack . I "some-throat", "caugh" } def backward drowning functions (y) if o in facts return true if g in knowledge-base for Conditions by knowledge base [good] if all (backworld_chainty (cond) for cond in conditions): return True teturn Rabe: # Occury: Does the patient have fler? sully 2 " flu."

if backward-chaining (query):

pront (futhe patient is diagonosed with

{query 3.") avery 2 " flu" print Lf" The patient does not have Equip

Output

The patient is diagnosed with flu.