Law program 10 Quali a mediciedge ware who sting diset ordise logic statements wild i from the gitten query wirry poruers stenier ng edgerithm 1. Indialize hnousledge Base (KB) Start weigh an compty time colledge base 2 eddd For statements to KB edd occlerant FOI statements to the remousledge bose. Those statements
supraunt dact and seules relocut
the domain 3. Legence Formoard recaroning rules
Specify the rules per poursand
cratoring. A Toutalize working memory
Count a working memory to store
the everent state of the knowledge
base during the overeining
howers. process. 5 edsh Query Formulate the guerry you want to herous 6: Forward recasoning loop

classmate
Page 37
Repeat the following steps until the
a. Iterate showigh each seels.
b. esphly oules whose conditions match the
c. edold the conclusions of the applied
It check quesal in alosking memory
t check queen in weeking memory Verify it green is now perent or can be impered
can lee impleded
8. output ouscult
To the greey is herousen output " Query is palse
query is palse.
Code
clais knowledge Base:
des_init_ (selp):
self eules = []
die add eule (self, conditions, conclusion)
sill since applied (sie conditions):
set (conditions), "conclusion"
iendusion 7?

def forward-seasoning (self, query): working_mormory = set () whichanged = globs while not unchanged:
unchanged = Town.
for sule in self. ourles: if sule ['conditions']. is subset (working memory) and sull ['conclusion'] not in working memory. working_memory add (sule ['conclusion's Undanged = False seturn query in working memoy Kb=Knowledge Base ()

Kb. add-sule (["P'?,"Q"], "P")

Kb. add-sule (["P'?,"e"), "P")

Kb. add-sule (("T"), ee y), "") query = e. N , > result = Kb. goward reasoning (query) if result: primt (" Query is touse")

primt (" Query is false")



Output
Enter the guery.
([e p ?]
(L 66 51 6 6 21 - 1 66 - 55)
([PF] " PP () 27] PP () 27)
) J, V)
Quality is dalage
Query is polso
,
Emtog the allegan
Enter the greeny
(T LP D 22 P P D 22 7 AP D 25)
([10 p) 2 0 0 0 0 7] 0 0 p 2 5) ([10 p) 2 0 0 p 2 7] 0 0 p 2 5) ([10 p) 2 0 0 p 2 7] 0 0 p 2 5)
(C10 P32 10 P27 7 P6 6 17)
Quelle de tour
Quory is town.
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(30,0)·M
699.