AKSHAY MITUR 1BM1805010

POQ ROS

Provo: PUR => QUS # (theck end for conversion to (NF)

l'agram for resolutions

Kb=[/]

dex (LEAR():

def TELA (sent):

y behal K b

if is (larse (sent)):

det disjunctify (clauses):

disjuncts = []

for clase in clauses is

disjuncts append (tuple (clause split ('v'))

return disjuncts

def get Resolvants (ci, cj, di, dj):

resolvent = dist(ci) + list(cj)

resolvent. remove (di)

resovent remove (d;)

return hyple (resolvent)

(PTO)

ALLAB WRITEUP IEST 21/ 29/12/20 1BM18(5010 AKSHAY MITTUR det resolve (ci, (j); for di in (i: for din G: if di == '~' + dj + dj == '~' +di: Vehun getResohent(ci, cj. di, dj) return[(i, g] def checkResolution (clauses, queg): clauses += [query if query startwith ('~') else '~' + query] Proposition = 'A'.join (['(+ clause +')' for clause in clauses]) clauses = disjunctify (clauses) resolved = False new= set() while not resolved: n-len(clases) pairs = [(classes[i], classes[j]) for i in longe(n) for j in longe(ithn)] for(Ci, G) in pairs: resolvent = resolve(Ci, C,) if not resolvent: resolved=True new= new.union (set(resolvent)) if new issubset (set (clauses)) = break for clases in new: if clase pt in classes. lage 2 clauses append (clause)

1BM18CSO10 AKSHAY MITTUR if resolved: print ("ko Entails quey") else! print ("KB doesn't entail quey") Given rules = y P=> G (1) Rays Tip. PVR > QUS As given in the evotion, converting to CNF PUR =) QUS ~ (PVR) *V(QVS) AR VQVS

ALLAB WRITEUP

TEST 2

1 M.

29/12/20