29-12-2020 LAB-Test-2 AI C. Karan Naidu 1BM1865062 Given P=> Q and R=>S Prove PVR=>QVS by resolution. Assume all the sentenseurs are det die junctify (clauser); die juncte = 1 ] fon clauser in clauser; disjuncts append Ctuple Calause, split & del get Berolvant (ci, cj, di,dj); resolvant = list & Cci & + list (cj, return tuple (resolvant) resolve (ci, cj); for dj in cj:

if di == -'+dj or dj == '~'+di:

freturn get Resolvant (ci,cj,di,d) check Resolution (clauser query):

clausest= E query if query starts with ('~')

else. -'+ query I

reposition = 'n'. join (E'('+ clause +')' for

clause in clauses I) print(ff: Torying to prove? propositions by contradiction ...

resolved = False. new=set() while not resolved: haires [ (damer [i], clauser [jfor iin range (n) for jin range (i+1, n) for (ci, cj) in paires?:
resolve (ci, cj) not greedwant: new = new . union (set (resolvents)) if new. issubet (set (clauses)): if clause not clauses: hount ('Knowledge base entails the gues peroved by resolution') no empty set produced after resolution")

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	clauses = in but ( Enter clauser, She	40	
	query = input ( Enter clauser). Sple query = input ( Enter the query: ) check Resolution ( clausery query)		
	query = input the grang		
	check Resolution (clauser, querry)		
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