GURU NAVINA BM18CS031 AI - LAB-TEST-2 Jour Daniel PROGRAM - 2 Write-Up An combinations = (1 True, True, True), (True, True, False), (For, False, Tone), (Tone, False, False), (False, True, True), (False, True, False), (False, Folse, Tre); [False, False, False)] variable = {p:'0','q':1,'2':23 kb = " priority = { 'n':3, 'v':1, '1':23 def input melel). global kb, 2 kb = input ("Enter sule:")) 9: input ("Enter the guery:") olf entailement(): global kb, 9 Print ( \* 10 + "South Table Reference " + 7 \* 10) print('kb', 'alpha') part (1x x 10) for comb in combination: S = Evaluate Posttin ( toostfix (kb), comb) f = evaluati Posthin ( to Posthin (2), comb)

s = evaluate Postfin (to Postfin (kb), comb

f = evaluate Postfin (to Postfin (2), comb)

print (s, +)

print ('-' \*10)

it s and not f:

yeturn False

yeturn Tome

def is Operand (c): GURU NAUMA actum c. isalphal) and c!= 'v' def is Left Paranthosis (C): actum c=="1" def in Right Parolithesis (c): xtum c == ) dy stropy (stack): setum langetack) == 0 def penk (stack); setum stack[-1] def howerds EndPriority (01, c2). try ? actum priority [c1] <= priority[e2] except keytwos: Atom False des tobostfix (infix): stack = [] postition = " " for I in Whix: if isoperad(c). postfix += c else: H isloftParanthers (c): stack append(1) elif & Right-Barouthesis (c): operator = stack popl) while not isleft taranthers bleper tool: postfix += operator eperator = stack-pepl)

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- Henland

While (not is Empty (stack)) and hadered & Equal Prints (c, peakletack): postfix += stack popl) GUEV NANMA setum postfin 1BM18CSD31 tendar! def evaluate Bestlinler, comb); Stack = () for i in enp: it is Operard(i): Stack-append (comb Craciable 6:37) elit i== '~': vall = stack popl) Stack-appendingt vall) vall = stack-pop() Val 2 = stack-pepl) stack. append [-evalli, note, note)) return stack-popl) def -eral(i, val1, val2): if i == 1/1 Stum val2 and val 1 detum ral2 or vall input-mees() ans = entailment() print " He Knowledge Rose entails query") if ans: else: point! "The Knowledge Base does not entail query")