imbort re. def get Attribates (expression). expression=expression. Split ('(")) wipression = "(" join (expression) ux pression = expression [:-1]
ux pression = re split ('(2<1)(.), (2!.))", ux pression) wetwon uxpression des get Initial Pour dicate (uxpression): vietaun expression. Split (" (') dy is constant (chau): withun char supper () and un (char)==1 def is Variable (char): withun chay islower () and len (chay) == 1 def unplace Attributes (exp, old, new) attui butes = get Attui butes (exp) for index, val, in enumerator (attuibutes) (also trill wing if ual == old: predi cale = get Initial Pou di cale (exp)

wetwen bredi cale + "("+", " attui butes [index] = new cutuun predicate + "("+"," join (attui butes)+")" dej apply (exp, substitution) for substitutions un substitutions: new, old = Substitutions ux p = ouplace Attributes (uxp, old, new) centurn elxp. def check occurs (var, exp). if cexp. find(var)==-1: volum false. et intention indicate (exp) and much at a duck costs (14): Justian

Ohavan Ram D.B. dy get First Part (expression): 1BM 18CS 097. attributes = get Attributes (expression) victuein (attributes [0] dy get Remaining Paut (ux pressi on): prediate = get Initial Puedi cate (uxpression) altai butter = get attenbules (ex pression).

new Expression = predicate + " ("+ ", ".join (attenbuttes [1:]+")" Oletwin new Expression. dy unify (axpl, axp 2:131201) to the file assum a grasson flet () y ux p1 == uxp2: De were Hourt Edward Juturn 1. is constant (ux p) and is constant (uxp2): Jell in Vinastile (chan) uxp1! = uxp2:viction False ! (mil) in brief (minder med monther if is constant (exp(1): man bla feel studiology alter Evetaun [(uxp1, exp2)] (40) white with the state with y as constant (exp2) inter with when her all her yeller withun [(exp2, exp1)] if is Variable (exp1):
if check occurs (exp1, exp2): action fild out the oution False and the state of t of allest substitution else: etten [(exp2, exp1)] of if is variable (exp2). in theck Ocurs (uxp2, exp 7): else: metran [(exp 1, exp2] if get Initial Prudicate (expl)

Prudicate (exp2). Davan Bang B 28/12/20 Shawan Ram J.B. AI-dabTest-2. Pount (Puedicates do not moth count be unified") 18m18cs099 Metuin Palse. atten bet Count 1 = len (get Attuibettes (exp)) attent bute Count 2= len (get Attent butes (ex p2)) y attei bute count !! I atten bute count 2: Eletuern False. head 1 = get First Paul (expl) head 2 = get First Paut (exp2) initial Sulestitutions = unify (head 1, head 2).

if not the initial Sulestituon on cuttum False. elxp1= "knows (A, x)" exp2 = " knows (4,4)" Sulstitutions = unify (exp1, exp2)
print (Sulstitutions: ") print (Substitutions) uxp1 = "knows(A, x)"ex p2= "knows (y, mo that (y))" substitutions = unify (exp1, ex p2)

print (" Substitutions:)" print (Substitutions) upught to of house have last Maron Jan J. P.