Quefault

def is Variable (char):

return char islower () and

den (char) = = 1

replace Attributes (enp, old, new): del

attributes = set Attributes (only)

predicate = get Initial Predicate (enp)

for inder, vol in enumerate (attributes):

y val = z old:

attuibutes [inden] = new 7

return predocte + " ("+", ". join (attributes) + ")"

def apply (enp, subtitutions):

You substitution in substitutions:

new, old = substitution enf = uplaces Attributes (enf. old, new)

return euf

(18)

AI - LAB -TEST-2 REVANTH.R 13M18 CS082 def deck Occurs (var, enf): Quelants if enf- find (var) = = -1; neturn False return Thue del get Frest part (expression): attuibutes = setAttuibutes (enfression) noturn attrobutes 207 def set Remaining Part (enpression): attaibutes = get Attabates (capiesian) rotun (attachetere to ? predicate - Set Initial Predicate Confression) has Expression = fredocate + " ("+", ". joon (Attachuter [1:3) + ")" return new Eupressian

REVANTUR BMIRCSORZ

Dutand

def unify (enf (, cap 2)

ing ent (= = tup 2

netum []

if is Constant (exp1) and is Constant (exp2):

ûf eufr! = enforz:

pront (of "ceup i3 and (enp 2) are constants.

Cannot be unified")

netun []

if is Constant (enf.):

return [(enfi (eap 2)]

if is Constant (enp2):

return ((cup 2, cup 1)]

if ais voulable (cupi):

neturn [(enf2, cnp1)) of not check occurs (cnp2, cnp1) else (s

(2B) cup 1 else B

(3A)

heal = Set First Part (cuf ,)

head 2 = set fruit Part (enf 2)

13M18CS082 Quantos

inchal substitution - unify thread, , head a)

if not instal Substitutea: nohun ()

if attailable could (z = 1:

neturn instal Substitution

tail (= get Remaining Part (eab 1)

tast 2 = get Remainery Part (cup 2)

4 inshal Sulutohitom ! = (s:

fail = apply (fail , initial rebetifution)

fasts - apply (fail a, instral substitution)

romaining Substitution 2 mingly (sent), fewla)

y not remaining substitution:

refun W

return initial substitution + remaining substitution.

(3B)

A8-LAB-7657-2 REVANTA. R if name = 5" - march " = 12 11 12 11 18 CS 082 hund ("Enter the first enpression") alefaulty er = infut () hunt l'Enter the seemd embres, on") er=infut() substitutions = unifig (e1, e2) bunt (a the Substatution, are") bunt (C', '. soin (substitution) for substitution in substitutions 2) JFrame ("Dividen App") LES ALONG LOS (AB)