Harshavandhana.k Arthitical Intellegence

LAB-TEST-2

Peragram 1.

Ovestion: Unification. paragram. IBM18CS035. CSE SA. del get Atlantantes (expa). expa = expa. split ("(")[1:] expa = "(". jour(expa) expa = or split ("(9 L!(1),(81,1))", expa) return expa det suplace Attachutu (exps, old, new): attr = get Atlaibute (exps) Las index, val in enumerate (otth): ik ral == old: atta[endex] = new priediente = get Initial Priedienate (expr) outron predictate + "(" + "," : [oin (atta) + ")! def unify (exps, exp2): ? | exp | == = exp = : return palse.[] of is Constant (exp1) and is (onstan (exp2):

> Harshaveadhen As 29/12/20/20

sutur False

9 exp! = exp2

```
AI-Lab-Test-2.
                                                Harshavasdhana.k.
   9/ isconstant (expi):
oretran [cexp2, expi)]
                                                 IBMI8CS035
                                                  CSE SA.
   isconstant (exp2):
         rutuan [ (exp2, exp1)]
     ? SeVariable (expi):
           ocheckOccars (exp., exp2):
               return [cexp2, exp1)]
    9 get Initial pardicute (expi)! = get Initial paredicate (exp2)
               paint ("pacdicate do not match. (armot unifed")
               ration False.
head = get First part (exp)
head 2 = gct First past (exp2)
Pritalsub= unely (head, head2)
  9) not Prietialsub:
      oretuan False.
   Pl attachute Count ==1:
oretron Prietral Sub.
 tael = get Remaining Post (expi)
  tail = get Remaining part (exp2)
  ? Prictialsub!= [].
          taeli = apply (taeli, Prietral sub)
          taels = apply (taels, Pretalaub)
    oranaeng sub = runity (tail, tails)
```

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```
Printealsub rextend (rumaining sub)
return initialsub.
```

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de) get Remaining Past (expor):

peredicate = get Initial predicate (expor)

atts = get Alfae bute (expr)
new Expr = predicate + "("+", " join (atteris)+")"

ruturn mew Expr

del get Finst post (expa):
otta = gct Atlanbutus (expa)
outum outuno]

de check Occuss (vas, exps):

Plexps. fend (vas) ==-1.

return palso

return prue.

del suplace Attachuter (exps, old, new):

otta = get Attachutes (exps)

foa ?ndex, val ?n enumenate (atta):

el vall == old:

atta [?ndex] = new

psudicate = get Intertal psudicute (exps)

psudicate = get Intertal psudicute (exps)

setuan psudicate + "("+", ".join(atta)+")"

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