LAB-2 Vaccuum Clearer Algorithm 100 and column (0-2): 02 and Lieberton Step-1 o .X Greate 2 rooms using classed aloss room: def-irit- (self a) the now and column (6-2): 2 o self state = a; and restriction def suk (self) 0 -X
Self state = O clear. Step-2 adul 1/0 had Instantiate the class and take week injust 01: analos ha control a = str (input ("Room o Ax state")) ·11: 1 (1) (1) 0 ) b = str (injut ("Roomx B. State ")) room\_ list = [)

Step -3

Perception seguence for i in noom-list

! ( i . shate = = " dorty ");
i . Suck () .

noom\_list. afterd 1 room (a))

noon. list appeared (noon (b))

1 Source

I have returned

```
Gode -
                                     Self. State [ Vacuus Petdien ) - Page 1.
cost Vaccin Clearer Agent:
                                            (" A mail at grain") time
     def _ init _ (self):
     1 Tritial State
                                                          del is alson ( sel ):
 'noul' - { 'throat' | state that here 'nould' - ['A moos!] state the weeker 'RoomA': 'Dirty',
                                                              del sus ( self ):
      'RoomB': 'Dirty',
                                               while not delf. in - than [1:
         Vaccuntidain ': 'Rooma'
                                                1) harmadure - patost . Hes
                                                      Self. Dear()
         DE SEASE COUNTY POST
                                                if not delp in clear (1):
                                                        Deson les .
 del display - enuironment ( self):
                                        fount ("Both hopped one than now")
     brust ("Room A: { dely. state ['Room A']) | Room B: f self-statellife Room B')]|
         Valuem: [ self. state [ 'Vorceum Relition ']]")
                                         Vacuum - agent : Vecuum Wears (1)
                                                            1) restrator musical
  def Nean (self):
      wrent - hosition = self. State [ Vacuum Baition )
                                                                        -TUTTUO
      if self. State [wirest - pesition] = = 'Dirty':
           self. state [lurrant - hosidión ]= 'Cileon':
                                                                       ptill: A moal
                                                                       Room B: Diety
                                                                  Marun : Reem A
         hing ("[ world-fatition ) is already clean ")
                                                                    aleaning learned.
                                                                     Room A: Clean
dy more (self):
                                                                     Waring Room P
     whent - position = self ( state ( " Novem Rosston )
                                                       Polh record are clear raw.
        il whent- fielden .== ( Room A ':
              self. State [ " Vaccium Position"] = 1 Roon 81
              bruid ( Moring to Room 8")
```

```
Use:
                                                                 Warmer Board Bort :
          Sel. Alale [ 'Vacuum Potation') = 'Room A'
              fruit ("Moring to Room A")
                                                                   of - int - ( self):
                                                                      A. Fritish State
          del i -. elean (sex):
                                                       and self. state ['Room B')== 'Wen'
              return self. State ['Room A'] == 'Clean'
        def run ( self 1:
                                                         " ptil " : 'droal"
           while not self. in - than (1:
                                                  'HaccomPeterson! : 'RoomA'
              self - display - environmed ()
             Self. Dean()
                                                       desirence of probability
                if not self in char(1: self. move ()
                                                       of distant ourseinest ( sell .
          brust (" Both hooms are blear now ")
[ [ " Loon A : [ tell state [ 1800 mil () ] ) trundering _ friends )] in
                                        Union [ Set , slate [ "Varioum ledition"]])
       uoum - agent : Vacuum bleanir (Agent 1)
      namen - agente mun (1
                                                                       dif ilean ( Ley):
                                    wordt. Josephin . Self. Hate [' Univers Politics')
 OUTPUT-
                                     : pario : = (radical ) form ] state . Hes fi
: 'nosw' = (radical - pariot) state . Hes
  Room A: Dirty
  Room B: Dirty
  Urlium: Room A
                                    (" nach foods " ( ration - bureas) " ) yard
  aleaning Room A.
                                                                     : (flet) war ju
  Room A: Glean
  alearing Room B
                                     ( 'nichter frauent') doch ; flet = nichter - frauent
 Both nooms are clean now.
                                               : " A most ) - . made had better i
                                     Self. Stote [ "Secure Techon"]: "Piene"
```

( grown a point ) twell