Waite an algorithm and a pacyscan for a 1st controlled mornin clearer Slep 1 = Create two rooms using I traviallos A. B. as an array on list The room A is on the left. The soon B' will be eightride an auc [2] arrest and arrest arres + but the were uput as 'o' or '1". "O' indicates that the soon is diety . '1' indicates, soom is clear, - The agent is in soon 'A', now we should a define a furtion to check if the soom is clear or dirty. => User input => Room 1, 2 com B - praciables => 0 or 1 i) def check-clear (Mar), fran 2) hetale ad i') high to while (motive): 10 mous de in the same if nov==0: if was 2 = = 0 : # lear val = 1 . (Nal = 1 - Lucy , Book , Amys) Eatale tring else more secon (rort not 2) (1) This function is used to move from one scompto another taking the input as the consideration. The agent should

move fil and only if the current soom is already clear, def move-room (som A, room B): while (True): 13 to Brown of

if soonA == I in a started to 4 wheel - clear (200m A) 20m D elif room == 1: check-dear (room A) 200m B)

```
if (RomA == I and Rooms == 1);
                 break
        function is used to stop the agent of the both
            of dello check-comp (Roemh, RoomB);
                    if Bacom A + goom B = = 2/11
                        Hytopo/25 longs 1200
                  break the state of the
        with a blank on home of man of the try.
 peint ("Enter Oif disty, I if clear) all for shoots of
Pergeam:
 earn A = int (input ("Enter status for som (Asio ")).
 som B = int (input (" Finter status for soon B: "))
  det check-clear (soon):
                              in ( Dura Been Jose ), I.
        if soom == 0 !
        ectura room
  def pent_etatus (200mA, 200mB, current_200m);
       print (f''Current status; Room A: ( Clean i f Room A == 2 else
         'Diety's, Reom B: f'Clean if RoomB == 1 else 'Diety's')
    pent (f "Agent is wreetly in soom (westert - soom?")
 def move-rooms (roomA, roamB) in out to take the
       current-room = A it room A == 0 also B' if room B == 0 el
        while RoomA == 0 of room B == 0 (1) month over the
            if room A = = 0:
                                  while (True)
                print status (room's room B A')
                Room A = chach _ clear ( soom A)
               print ("Room A cleared")
                A smeat thrown ) made which
```

```
if nomp = = 0:
               print , status (som A, soon B, B')
                2 con B = chack, clear (2001 B)
                prid ("Rem B elecued") & and the
          if Rown A = 1 and rown B = = 0
               cultant some Bit was a
               print (" nget moves to now ").
         elif Room B = : 1 and Room A = = 0!
              print (ingest moves to nown 1:")
    print (Both sooms done leaving)
move sooms (200m A, 200m B)
                                                 · Lighti-
  Enter O if diety, 1 is clear
   Exten status for soon A: O
                                   ad I have glik 10
   Exter status for soon D: O
                                 I was be in all soil
  Current etatus: Room A: Diety, Room B: Diety
  Agent is werently in from A
                             1 . I fredok
                              1 : Emmost
   Room A cleared
  Curseit status: poon A: Clean, Room B: Dirty
  Agest is cursostly in from B
                                     I mark he he do by
   Room B Cleared
  Current status: Rocant: clear, Room B: Clean
   Agent is currently in from D
                                     I mark in the half
   Both soons done learing
                                tomash youth and
                                     CEMBON IN A THAT
                                  towned y tout of the
                                       Amos will by
```

Jul 10/14

output:

Lucil inst brunk its most the

```
(ale for a generalised to do
                   and any of the to the
→ Rooms = []
   def nove-agent (Rooms):
       for in sange (la (some)):
           print (f'In Agent is in room (it 1))
            if scoms [:] == 0:
scoms = clean (scoms, i, f', poom di+1);
               print (f"Rom 9 i + 13 already cleared")
            else:
       if all (som == 1) for som in soms):

print ("In All soms cleared")
           point ( : maged is moving back to check some again'
           move_agent (econs)
                            indo di L. while I in chan
Output:
                          O A most by wetch on
 0-diety and 1- clear
 Exter the no of scrome: 4
  Exter status for soon for A . Estate . A and : cutal.
                           A word in just when is to go
                 200m 2 : 1
                100m 3: 1
                                   I m O cleans at
                 each 4; For well a former wellow being
                              a mad in please, is high
 Agent 1 is in soom 1
                                Lond)
 hoom 1 already cleared in
                              ingle through the law.
 Agest is in soom 2
                              A most in publican when
 from 2 already cleared
                              "Orinal and was the
 Agent is in soom 3
 Room 3 already cleaned
 Agent is in room 4
 Room 4 cleaned
 All rooms are cleared
```