	LABO -
	Vaccoum Cleoner Agent Algorithm
	Jon nyum
	Step 1: Start
	Step 2: Take input of location of agent  (A on B) and take the status whether
	rooms are clean as dist
	Step 3: Tritialize status to the sound
	Step 3: Initialize status to the rooms.  Step 4:
	Declare dictionary for percept
	agent_table = {  ( Clean 'A') = MoveRight
	(Clean, B') = Moveleft
	(Dirty, 'A') = Suck
	2 (Dienty, 'B') = Suck
	J
	Step 5: Based on the status of rooms while
	loop own until both the rooms are
	dean.
	while ( soom-status ! = 'clean')  call the action function
	Step 6: action function ()
	if status = dorty seturn Suck
	else
	if location = A return Merelight
	it location : B retion Montest.
	Step 7: Print the percept sequence and end the loop when both the rooms are clear.
	Step 7: Point the percept sequence and are clear.
po	The work with
1	Styp8: END

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CODE:
agent_table = { ('(lean', 'A') = 'MoreRight',
  ('Ucan', 'B') = 'More Left',

('Dirty', 'B') = 'Suck';

('Dirty', 'B') = 'Suck',
das Vacuum Ucaner:
    def __init__ (self, lot = 'A', Status = 'Uean'):
        self.loc = loc
        self. status = status
     def act (self, action):
         if action == 'MoveRight':
           self. loc : 'B'
        elif action == 'Moveleft':
self.loc = 'A'
        elif action == 'Suck':
              self. * tatus = 'Clean'
if __name__ == "__nain__"
     status A = input ("Enter status of room A:")
     Status - B = input ("Enter status of room B:")
     Vacuum = Vacuum Cleaner (loc = 'A', status = status - A)
    while status A == 'Dirty' or status B := Dirty
action = agent tuble get ((vacuum status,
vacuum loc), 'No Op')
         print (f" Percept: [ Vacuum Atatus ], Action: {action
```

it (action! = 'No Op': vacuum act (action) if action : = 'Juck'; if vacuum. Loc == 'A': Status A = 'Clean' elser status\_B = 'Clean' Vacuum Atatus = Staus- A it Vacuum - loc = A' else status-B print (f "Cocation: f vacuum. tocy, Status A: Sstatus Ay, status B: Sstatus - D3") print ("Both rooms are clean!") DUTPUT: Enter the status of room A: clean Enter status of room B: dirty Percept: Clean, Action: Movelight Location: B, Status A: Clean, Status B: Dirty Porcept: Dirty, Action: Suck Location: B, Status A: Clean, Status B: Clean Roth rooms are clean!

