PAGE: - main- "; tic_tac_toe () 1 10 24 Vacuum cleaner Take uper input jos the initial of * Enter the initial position of the vacu-Step 1: Take uper input :- create a "ptale" ich Shows ted " mone sight B moue "room_A"]=="list rely. state [" Youn_ cleaning room print (" cleaning room B" nooms

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PAGE: self state = 0 3 "Vaccium pos" input ("Enter the initial position_). upper CZ, le va Cuum cloanes (A or B): Toom A inpul ("Is Room A dirty or clear?") long "Toom B" input ("Is Room B disty of clean?"). lough dy show state (self): point(+ " Vaccoum Position: { self. state[vaccoum-posit]. Room A: ? sely. State ['room R'], Room B dy is clean Creft? return sey state ["room_A"] == " clean" and self State ["room B"]==" def more-right (selp: if self state ["vacuum-por"] == "A": say. State ["Vaccum-pos"] = B" 110 frint ("Moving to Room B") de more left (sex): if rely state ["vacuum-pos"]== "B" solf. State [" Vaccum por"] = A" print ("Moving to Room A") dy suck (sely): self. state [" vacuum = pos] == "A": ig self. state["room_A"] == disty": paint ("Cleaning Room A elig self. state ["Vacuum pos"]== "B" sely statif room_B"]== "dirty": seg. state ["room_B"]= " Class" perint (" cleaning Room B")

des grun (self): while not self is clean (): rely show state () self. state ["vacuum_por"] =: A":

y self. state ["room_A"] = "disty":

self. slick [] self-more right) elig self state (" vacuum por"]== "B": ig bed, state [" room B"] == "dirty": point ("Both rooms are clean now!" Vacuum = Vacuum Cleanos () vallum, runc) Enter the initial position of the vacuum (A orB):a Is Room A dirry of dean? clean Vacuum Position. A Room A: clean, Room Bidisty Moving to RoomB Vacuum Portion'. B, Room A: Clean, Room Bidirty Cleaning Room B Both rooms are dean now! Vaccoum position: B, Room A: Close

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Enter the initial position of the vacuum cleaner (A or B): a

Is Room A dirty or clean? clean

Is Room B dirty or clean? dirty

Vacuum Position: A, Room A: clean, Room B: dirty

Moving to Room B

Vacuum Position: B, Room A: clean, Room B: dirty

Cleaning Room B

Both rooms are clean now!

Vacuum Position: B, Room A: clean, Room B: clean

=== Code Execution Successful ===
```