PROGRAM

import random

def display(room):

print(room)

room = [

[1, 1, 1, 1],

[1, 1, 1, 1],

[1, 1, 1, 1],

[1, 1, 1, 1],

]

print("All the rooom are dirty")

display(room)

x =0

y= 0

while x < 4:

while y < 4:

room[x][y] = random.choice([0,1])

y+=1

x+=1

y=0

print("Before cleaning the room I detect all of these random dirts")

display(room)

x =0

y= 0

z=0

while x < 4:

while y < 4:

if room[x][y] == 1:

print("Vaccum in this location now,",x, y)

room[x][y] = 0

print("cleaned", x, y)

z+=1

y+=1

x+=1

y=0

pro= (100-((z/16)\*100))

print("Room is clean now, Thanks for using : 3710933")

display(room)

print('performance=',pro,'%')

OUTPUT

