VACCUM CLEANER PROBLEM :

**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,'%')**