

```
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
```

```
↳ All the rooom are dirty
[[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]
```

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```
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
```

```
Before cleaning the room I detect all of these random dirts
[[1, 1, 1, 0], [0, 0, 1, 1], [1, 1, 0, 1], [1, 0, 1, 1]]
```

```
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,'%')
```

```
Vaccum in this location now, 0 0  
cleaned 0 0  
Vaccum in this location now, 0 1  
cleaned 0 1  
Vaccum in this location now, 0 2  
cleaned 0 2  
Vaccum in this location now, 1 2  
cleaned 1 2  
Vaccum in this location now, 1 3  
cleaned 1 3  
Vaccum in this location now, 2 0  
cleaned 2 0  
Vaccum in this location now, 2 1  
cleaned 2 1  
Vaccum in this location now, 2 3  
cleaned 2 3  
Vaccum in this location now, 3 0  
cleaned 3 0  
Vaccum in this location now, 3 2  
cleaned 3 2  
Vaccum in this location now, 3 3
```

```
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]  
performance= 31.25 %
```

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