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C:\Users\rutaz

C:\Users\rutaz\untitled0.py

untitled0.py*

```python
1   # -*- coding: utf-8 -*-
2   """
3   @author: rutaz
4   """
5
6   import random as r
7
8   def randGenerator(n,m):
9       arr = []
10      for i in range(n):
11          array = []
12          for j in range(m):
13              array.append(r.choice([0,1]))
14          arr.append(array)
15      return arr
16
17  def printing(arr,n,m,a,b):
18      for i in range(n):
19          for j in range(m):
20              if a==i and b==j and b==0:
21                  if j==0:
22                      print("", end="")
23                  print("<",end="")
24                  print(arr[i][j], end="> ")
25
26              elif a == i and b == j+1:
27                  if j==0:
28                      print(" ", end="")
29                  print(arr[i][j], end="  <")
30              elif a == i and b == j:
31                  if j==0:
32                      print(" ", end="")
33                  print(arr[i][j], end="> ")
34              else:
35                  if j==0:
36                      print(" ", end="")
37                  print(arr[i][j], end="   ")
38          print()
39
40  def cleaner(arr,n,m):
41      pos = 0;
42      for i in range(n):
```

Source Console   Object

Variable explorer Help Plots Files

Console 1/A

```
Python 3.8.3 (default, Jul  2 2020, 17:30:36) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.16.1 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/rutaz/untitled0.py', wdir='C:/Users/rutaz')
Enter the values of:

N = 4

M = 5
<1> 0   0   0   0
 1   1   0   1   0
 0   1   1   0   1
 0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
 0  <0> 0   0   0
 1   1   0   1   0
 0   1   1   0   1
 0   1   0   1   1
Already clean....moving ahead
 0   0  <0> 0   0
 1   1   0   1   0
 0   1   1   0   1
 0   1   0   1   1
Already clean....moving ahead
 0   0   0  <0> 0
 1   1   0   1   0
 0   1   1   0   1
 0   1   0   1   1
Already clean....moving ahead
 0   0   0   0  <0>
 1   1   0   1   0
 0   1   1   0   1
```

IPython console History

LSP Python: ready   conda: base (Python 3.8.3)   Line 3, Col 15   UTF-8   CRLF   RW   Mem 86%

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ENG

01:06 PM
13-11-2020

Spyder (Python 3.8)

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@author: rutaz
"""

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    arr = []
    for i in range(n):
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            array.append(r.choice([0,1]))
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    return arr

def printing(arr,n,m,a,b):
    for i in range(n):
        for j in range(m):
            if a==i and b==j and b==0:
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                print(arr[i][j], end="> ")

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                if j==0:
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                print(arr[i][j], end="  <")
            elif a == i and b == j:
                if j==0:
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                print(arr[i][j], end="> ")
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        print()

def cleaner(arr,n,m):
    pos = 0;
    for i in range(n):
```

Source Console   Object

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor

Variable explorer Help Plots Files

Console 1/A

```
0   1   0   1   1
0   1   0   1   1
Already clean....moving ahead
0   0   0   0   <0>
1   1   0   1   0
0   1   1   0   1
0   1   0   1   1
Already clean....moving ahead
0   0   0   0   0
1   1   0   1   <0>
0   1   1   0   1
0   1   0   1   1
Already clean....moving ahead
0   0   0   0   0
1   1   0   <1>  0
0   1   1   0   1
0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
1   1   <0>  0   0
0   1   1   0   1
0   1   0   1   1
Already clean....moving ahead
0   0   0   0   0
1   <1>  0   0   0
0   1   1   0   1
0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
<1>  0   0   0   0
0   1   1   0   1
0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
0   0   0   0   0
```

IPython console History

LSP Python: ready   conda: base (Python 3.8.3)   Line 3, Col 15   UTF-8   CRLF   RW   Mem 86%

Type here to search

Desktop   ENG   01:06 PM   13-11-2020

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37                  print(arr[i][j], end="   ")
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40  def cleaner(arr,n,m):
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Source Console   Object

Usage

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Variable explorer Help Plots Files

Console 1/A

```
Percepting Dirt....CLeaning....moving ahead
 0   0   0   0   0
<1>  0   0   0   0
 0   1   1   0   1
 0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
 0   0   0   0   0
 0   0   0   0   0
<0>  1   1   0   1
 0   1   0   1   1
Already clean....moving ahead
 0   0   0   0   0
 0   0   0   0   0
 0  <1>  1   0   1
 0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
 0   0   0   0   0
 0   0   0   0   0
 0   0  <1>  0   1
 0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
 0   0   0   0   0
 0   0   0   0   0
 0   0   0  <0>  1
 0   1   0   1   1
Already clean....moving ahead
 0   0   0   0   0
 0   0   0   0   0
 0   0   0   0  <1>
 0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
 0   0   0   0   0
 0   0   0   0   0
 0   0   0   0   0
```

IPython console History

LSP Python: ready   conda: base (Python 3.8.3)   Line 3, Col 15   UTF-8   CRLF   RW   Mem 83%

Type here to search

Desktop   ENG   01:06 PM   13-11-2020

```python
# -*- coding: utf-8 -*-
"""

@author: rutaz
"""

import random as r

def randGenerator(n,m):
    arr = []
    for i in range(n):
        array = []
        for j in range(m):
            array.append(r.choice([0,1]))
        arr.append(array)
    return arr

def printing(arr,n,m,a,b):
    for i in range(n):
        for j in range(m):
            if a==i and b==j and b==0:
                if j==0:
                    print("", end="")
                print("<",end="")
                print(arr[i][j], end="> ")

            elif a == i and b == j+1:
                if j==0:
                    print(" ", end="")
                print(arr[i][j], end="  <")
            elif a == i and b == j:
                if j==0:
                    print(" ", end="")
                print(arr[i][j], end="> ")
            else:
                if j==0:
                    print(" ", end="")
                print(arr[i][j], end="   ")
        print()

def cleaner(arr,n,m):
    pos = 0;
    for i in range(n):
```

Console output:

```
0   0   0   0   <1>
0   1   0   1   1
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
0   1   0   1   <1>
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
0   1   0   <1>   0
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
0   1   <0>   0   0
Already clean....moving ahead
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
0   <1>   0   0   0
Percepting Dirt....CLeaning....moving ahead
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
<0>   0   0   0   0
Already clean....moving ahead

0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
0   0   0   0   0
Everything Cleaned
```