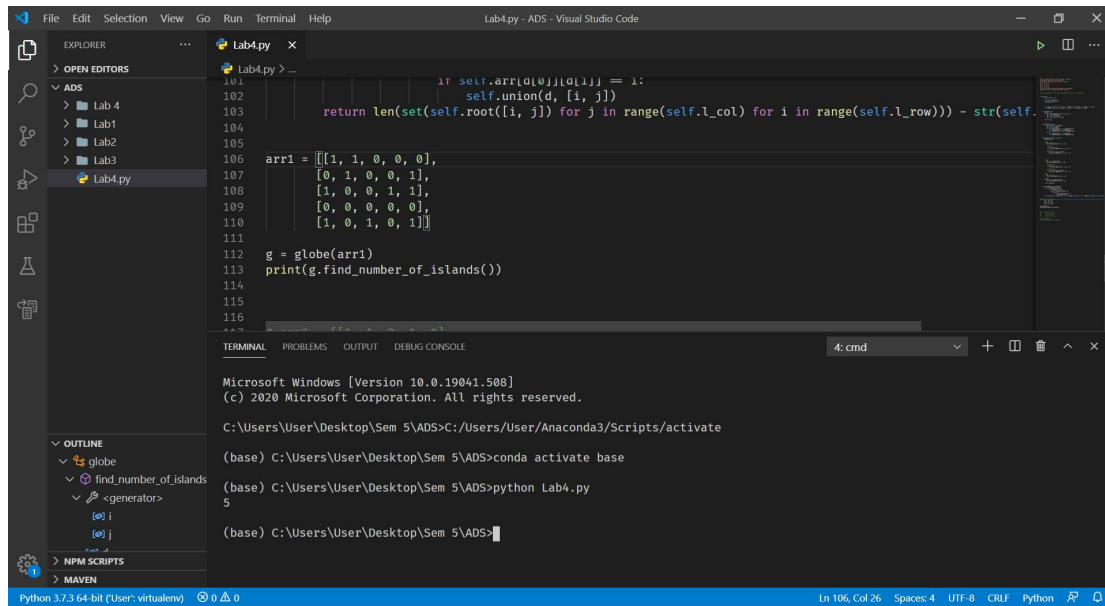


Output

Test 1



```
File Edit Selection View Go Run Terminal Help
Lab4.py - ADS - Visual Studio Code

EXPLORER
> OPEN EDITORS
  > ADS
    > Lab 4
    > Lab1
    > Lab2
    > Lab3
    > Lab4.py

OUTLINE
  > globe
  > find_number_of_islands
    > <generator>
      > i
      > j

NPM SCRIPTS
MAVEN

Python 3.7.3 64-bit (User: virtualenv) 0 0 0

Lab4.py
101
102
103
104
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107
108
109
110
111
112
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129

if self.arr[d][j][d] == 1:
    self.union(d, [i, j])
return len(set(self.root([i, j]) for j in range(self.l_col) for i in range(self.l_row))) - str(self.

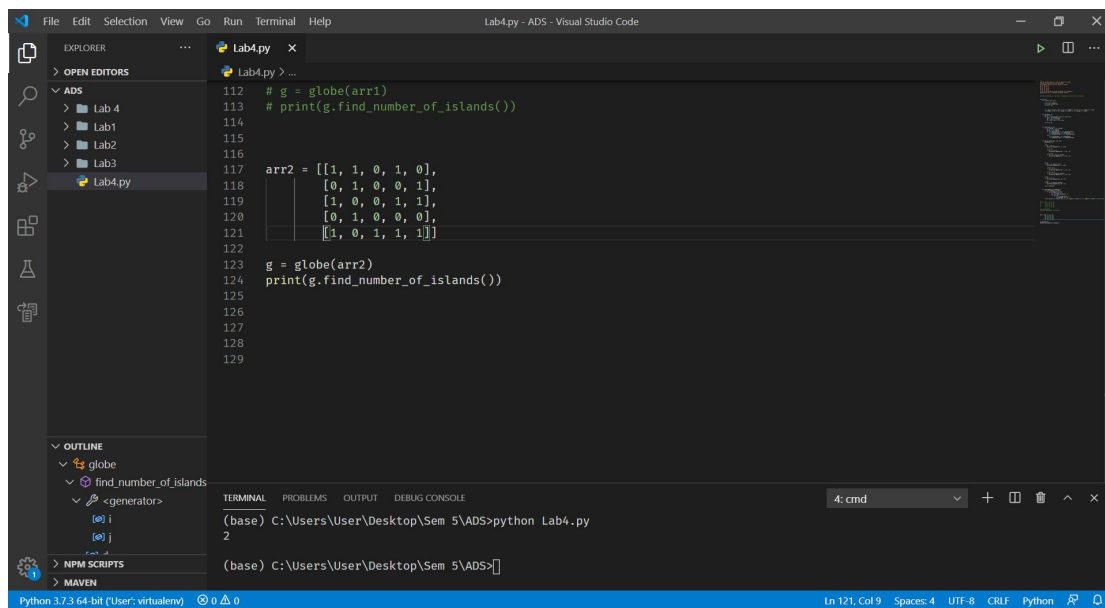
arr1 = [[1, 1, 0, 0, 0],
        [0, 1, 0, 0, 1],
        [1, 0, 0, 1, 1],
        [0, 0, 0, 0, 0],
        [1, 0, 1, 0, 1]]

g = globe(arr1)
print(g.find_number_of_islands())

TERMINAL
4: cmd
Microsoft Windows [Version 10.0.19041.508]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\User\Desktop\Sem 5\ADS>C:\Users\User\Anaconda3\Scripts\activate
(base) C:\Users\User\Desktop\Sem 5\ADS>conda activate base
(base) C:\Users\User\Desktop\Sem 5\ADS>python Lab4.py
5
(base) C:\Users\User\Desktop\Sem 5\ADS>
```

Test 2



```
File Edit Selection View Go Run Terminal Help
Lab4.py - ADS - Visual Studio Code

EXPLORER
> OPEN EDITORS
  > ADS
    > Lab 4
    > Lab1
    > Lab2
    > Lab3
    > Lab4.py

OUTLINE
  > globe
  > find_number_of_islands
    > <generator>
      > i
      > j

NPM SCRIPTS
MAVEN

Python 3.7.3 64-bit (User: virtualenv) 0 0 0

Lab4.py
112
113
114
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122
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124
125
126
127
128
129

# g = globe(arr1)
# print(g.find_number_of_islands())

arr2 = [[1, 1, 0, 1, 0],
        [0, 1, 0, 0, 1],
        [1, 0, 0, 1, 1],
        [0, 1, 0, 0, 0],
        [1, 0, 1, 1, 1]]

g = globe(arr2)
print(g.find_number_of_islands())

TERMINAL
4: cmd
(base) C:\Users\User\Desktop\Sem 5\ADS>python Lab4.py
2
(base) C:\Users\User\Desktop\Sem 5\ADS>
```