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Tugas 1

Struktur Data

1. Link GitHub

https://github.com/BagusCPaste/Struktur_Data

2. Source code stack python

```
# mengecek apakah list L kosong atau tidak
x = []
x.append('hallo')
x.append('apa kabar')
x.append('semuanya')
print(x)
def is_empty():
    return x==[]
x.pop()
x.pop()
x.pop()
print(is_empty())
['hallo', 'apa kabar', 'semuanya']
True
s = []
s.append('hallo')
s.append('semuanya')
s.append('apa kabar')
print(s)

hapus = s.pop()
print('data terhapus: ', hapus)
print('data terbaru: ', s)
print('panjang stack: ', len(s))
def apakah_kosong():
    return s == []
```

3. Screenshoot hasil run program stack python



The screenshot displays the Visual Studio Code interface with a Python file named `stackPython.py` open. The code implements a stack using a list and includes functions for checking emptiness, popping, and pushing elements. The output window at the bottom shows the execution results.

```
1 # mengecek apakah list L kosong atau tidak
2 x = []
3 x.append('hallo')
4 x.append('apa kabar')
5 x.append('semuanya')
6 print(x)
7 def is_empty():
8     return x==[]
9 x.pop()
10 x.pop()
11 x.pop()
12 print(is_empty())
13 ['hallo', 'apa kabar', 'semuanya']
14 True
15 s = []
16 s.append('hallo')
17 s.append('semuanya')
18 s.append('apa kabar')
19 print(s)
20
21 hapus = s.pop()
22 print('data terhapus: ', hapus)
23 print('data terbaru: ', s)
24 print('panjang stack: ', len(s))
25 def apakah_kosong():
26     return s == []
```

OUTPUT

```
[Running] python -u "d:\KULIAH\SEMESTER 3\STD - Struktur Data\Project\stackPython.py"
['hallo', 'apa kabar', 'semuanya']
True
['hallo', 'semuanya', 'apa kabar']
data terhapus: apa kabar
data terbaru: ['hallo', 'semuanya']
panjang stack: 2

[Done] exited with code=0 in 0.212 seconds
```