

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



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## Tugas Praktikum 5 :

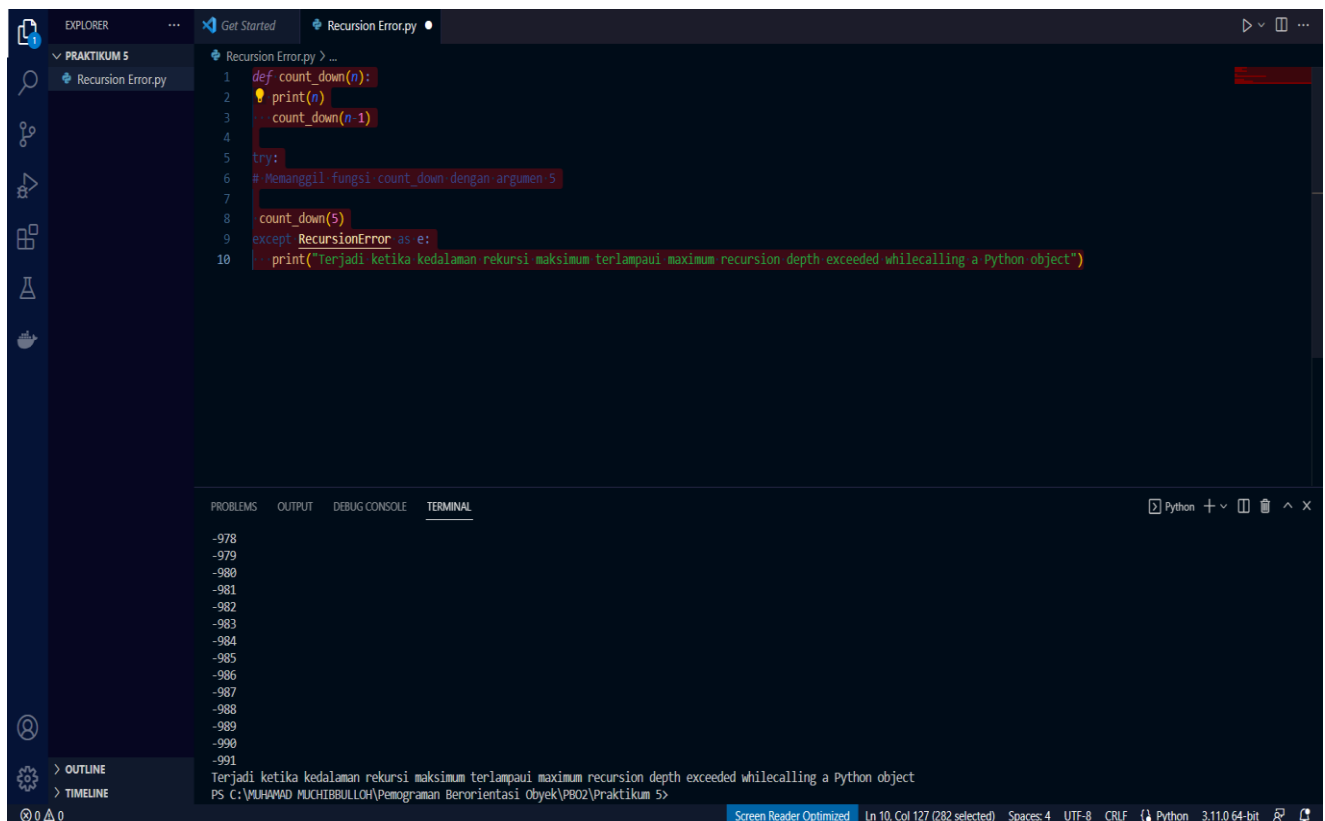
Berikan masing – masing 1 contoh exeption handling dengan contoh yang berbeda dari contoh yang sudah diberikan. Jawaban diupload di github masing-masing diforder :  
Praktikum5

Jawaban :

### 1. Recursion Error

```
def count_down(n):  
    print(n)  
    count_down(n-1)  
  
try:  
    # Memanggil fungsi count_down dengan argumen 5  
  
    count_down(5)  
except RecursionError as e:  
    print("Terjadi ketika kedalaman rekursi maksimum terlampaui maximum recursion depth exceeded whilecalling a Python object")
```

Output :



The screenshot shows a Visual Studio Code editor with a file named 'Recursion Error.py'. The code in the editor is as follows:

```
1 def count_down(n):  
2     print(n)  
3     count_down(n-1)  
4  
5 try:  
6     # Memanggil fungsi count_down dengan argumen 5  
7  
8     count_down(5)  
9 except RecursionError as e:  
10    print("Terjadi ketika kedalaman rekursi maksimum terlampaui maximum recursion depth exceeded whilecalling a Python object")
```

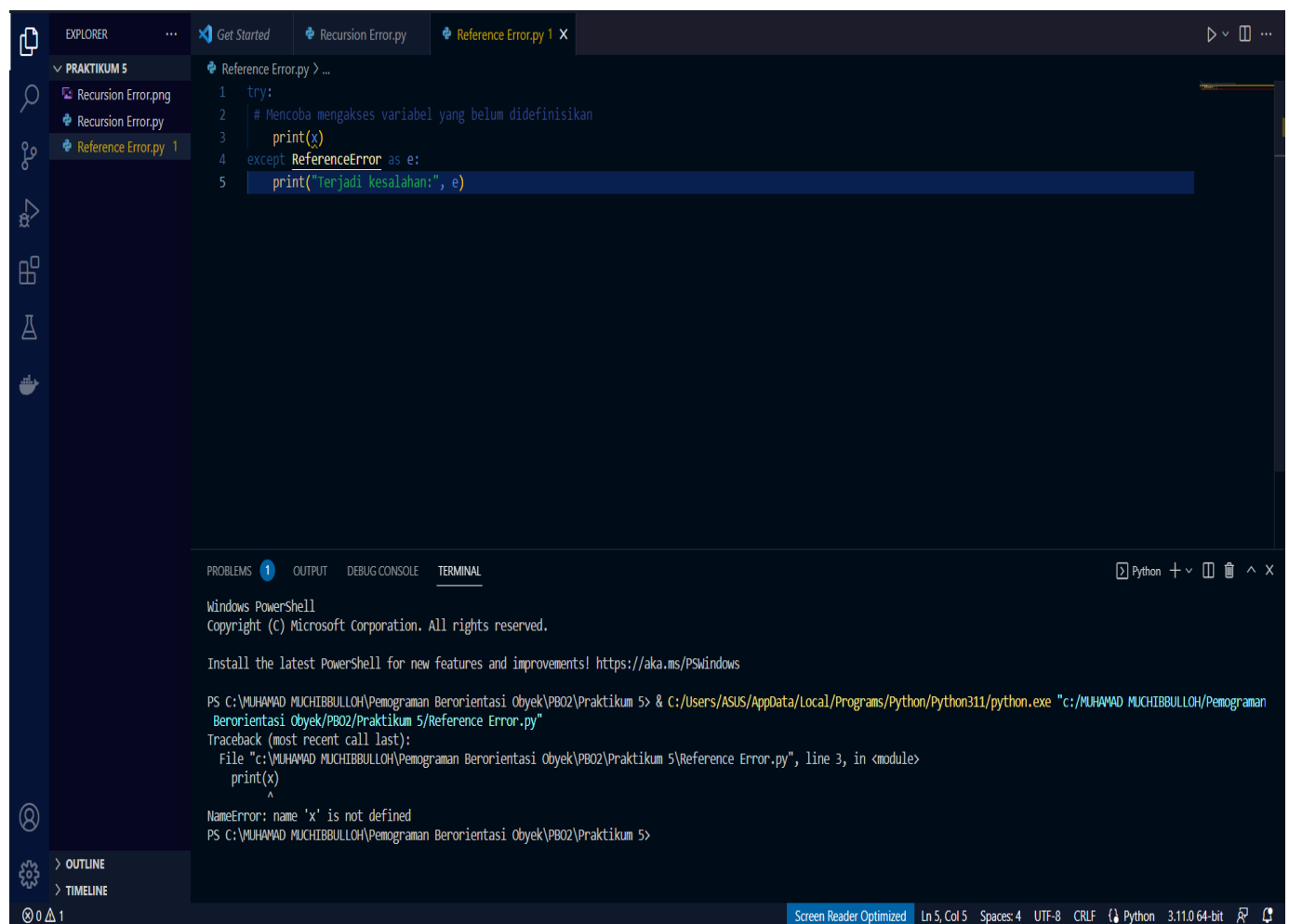
The terminal at the bottom shows the output of the program, which is a series of numbers from -978 to -991, followed by the error message: "Terjadi ketika kedalaman rekursi maksimum terlampaui maximum recursion depth exceeded whilecalling a Python object". The status bar at the bottom indicates the file is at line 10, column 127, and the Python version is 3.11.0 64-bit.

## 2. Reference Error :

```
try:
    # Mencoba mengakses variabel yang belum didefinisikan
    print(x)

except ReferenceError as e:
    print("Terjadikesalahan:"e)
```

Output :



The screenshot shows a Visual Studio Code editor with a Python file named 'Reference Error.py'. The code in the file is as follows:

```
1 try:
2     # Mencoba mengakses variabel yang belum didefinisikan
3     print(x)
4 except ReferenceError as e:
5     print("Terjadi kesalahan:", e)
```

The terminal output shows the execution of the script, which results in a NameError (a subclass of ReferenceError) because the variable 'x' is not defined:

```
Windows PowerShell
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PS C:\MUHAMMAD MUCHIBULLOH\Pemograman Berorientasi Obyek\PB02\Praktikum 5> & C:/Users/ASUS/AppData/Local/Programs/Python/Python311/python.exe "c:/MUHAMMAD MUCHIBULLOH/Pemograman Berorientasi Obyek/PB02/Praktikum 5/Reference Error.py"
Traceback (most recent call last):
  File "c:/MUHAMMAD MUCHIBULLOH/Pemograman Berorientasi Obyek/PB02/Praktikum 5/Reference Error.py", line 3, in <module>
    print(x)
    ^
NameError: name 'x' is not defined
PS C:\MUHAMMAD MUCHIBULLOH\Pemograman Berorientasi Obyek\PB02\Praktikum 5>
```

The status bar at the bottom indicates the file is at Line 5, Column 5, using UTF-8 encoding, and is being run with Python 3.11.0 64-bit.

### 3. Stop AsyncIteration :

```
import asyncio

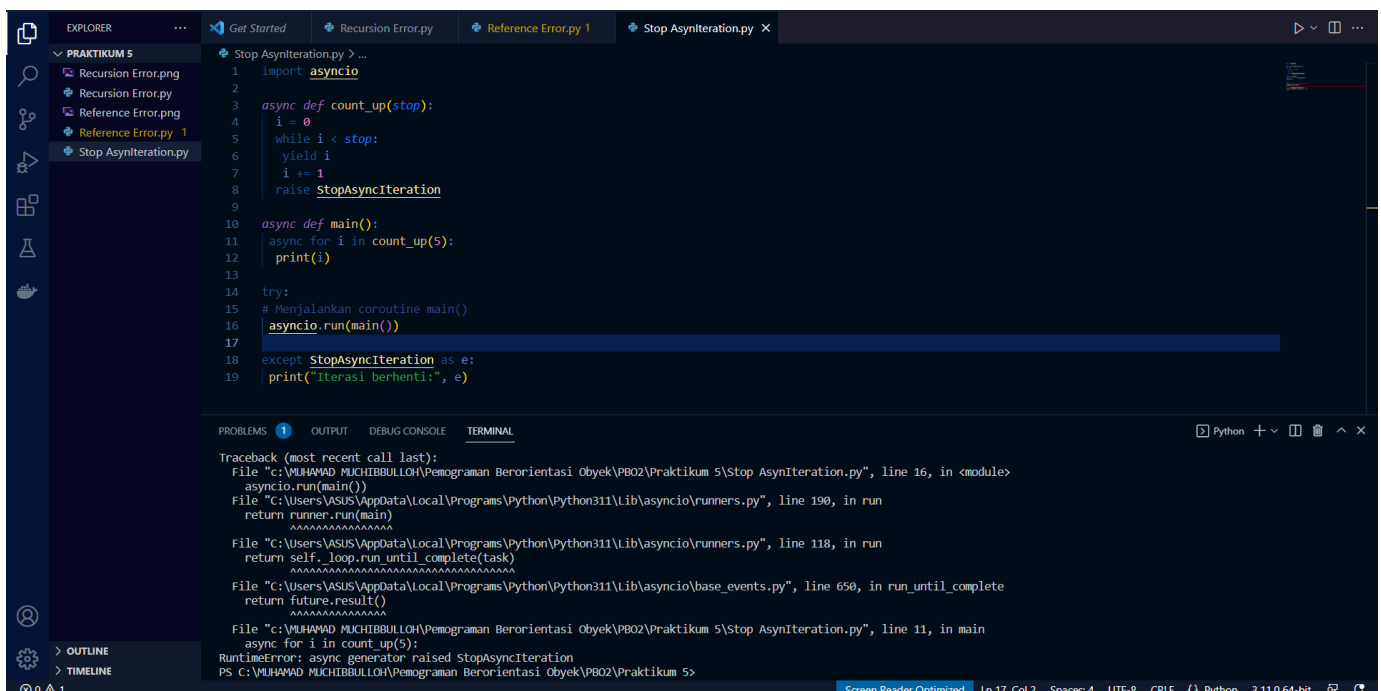
async def count_up(stop):
    i = 0
    while i < stop:
        yield i
        i += 1
    raise StopAsyncIteration

async def main():
    async for i in count_up(5):
        print(i)

try:
    # Menjalankan coroutine main()
    asyncio.run(main())

except StopAsyncIteration as e:
    print("Iterasi berhenti:", e)
```

Output :



```
Traceback (most recent call last):
  File "c:\MUHAMMAD MUCHIBULLOH\Pemrograman Berorientasi Obyek\PB02\Praktikum 5\Stop AsyncIteration.py", line 16, in <module>
    asyncio.run(main())
  File "c:\Users\ASUS\AppData\Local\Programs\Python\Python311\Lib\asyncio\runners.py", line 190, in run
    return runner.run(main)
  File "c:\Users\ASUS\AppData\Local\Programs\Python\Python311\Lib\asyncio\runners.py", line 118, in run
    return self._loop.run_until_complete(task)
  File "c:\Users\ASUS\AppData\Local\Programs\Python\Python311\Lib\asyncio\base_events.py", line 650, in run_until_complete
    return future.result()
  File "c:\MUHAMMAD MUCHIBULLOH\Pemrograman Berorientasi Obyek\PB02\Praktikum 5\Stop AsyncIteration.py", line 11, in main
    async for i in count_up(5):
RuntimeError: async generator raised StopAsyncIteration
PS C:\MUHAMMAD MUCHIBULLOH\Pemrograman Berorientasi Obyek\PB02\Praktikum 5>
```

#### 4. StopIteration :

```
class CountUp:

    def __init__(self, stop):
        self.i = 0
        self.stop = stop

    def __iter__(self):
        return self

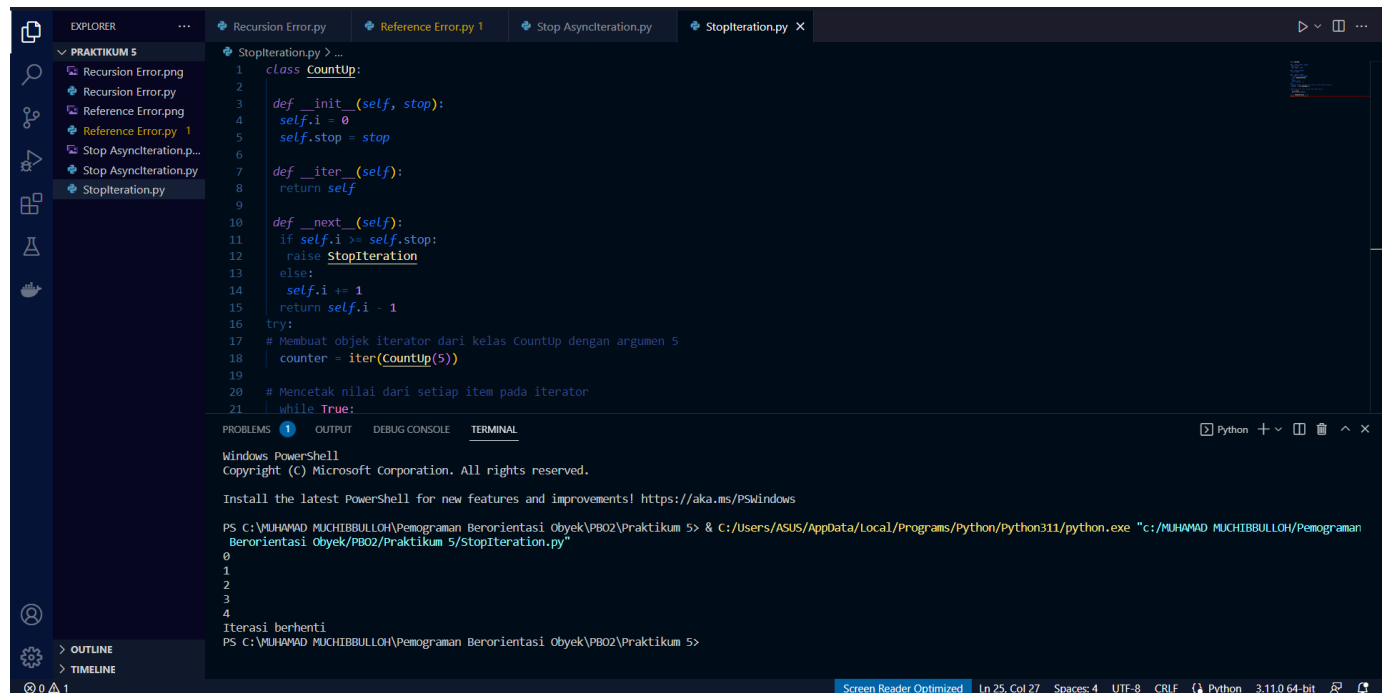
    def __next__(self):
        if self.i >= self.stop:
            raise StopIteration
        else:
            self.i += 1
        return self.i - 1

try:
    # Membuat objek iterator dari kelas CountUp dengan argumen 5
    counter = iter(CountUp(5))

    # Mencetak nilai dari setiap item pada iterator
    while True:
        print(next(counter))

except StopIteration as e:
    print("Iterasi berhenti")
```

Output :



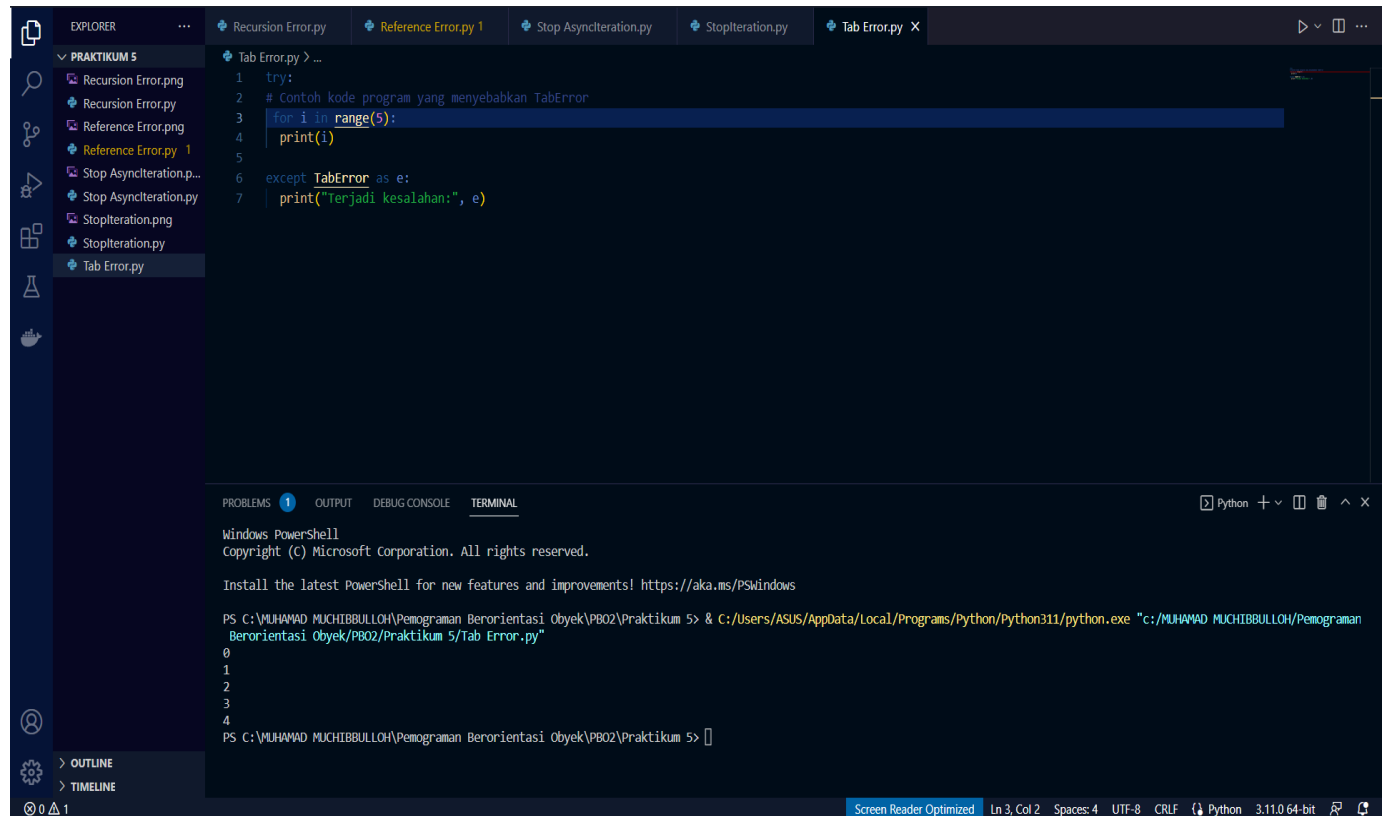
```
1 class CountUp:
2
3     def __init__(self, stop):
4         self.i = 0
5         self.stop = stop
6
7     def __iter__(self):
8         return self
9
10    def __next__(self):
11        if self.i >= self.stop:
12            raise StopIteration
13        else:
14            self.i += 1
15            return self.i - 1
16
17    try:
18        # Membuat objek iterator dari kelas CountUp dengan argumen 5
19        counter = iter(CountUp(5))
20
21        # Mencetak nilai dari setiap item pada iterator
22        while True:
23            print(next(counter))
24
25    except StopIteration:
26        print("Iterasi berhenti")
27
28    PS C:\MUHAMAD MUCHIBULLOH\Pemrograman Berorientasi Obyek\PB02\Praktikum 5> C:\Users\ASUS\AppData\Local\Programs\Python\Python311\python.exe "c:/MUHAMAD MUCHIBULLOH/Pemrograman Berorientasi Obyek/PB02/Praktikum 5/StopIteration.py"
29
30    0
31    1
32    2
33    3
34    4
35    Iterasi berhenti
36    PS C:\MUHAMAD MUCHIBULLOH\Pemrograman Berorientasi Obyek\PB02\Praktikum 5>
```

5. Tab Error :

```
try:
    # Contoh kode program yang
    # menyebabkan TabError
    for i in range(5):
        print(i)

except TabError as e:
    print("Terjadi kesalahan:", e)
```

Output :



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a folder named 'PRAKTIKUM 5' containing several files, including 'Reference Error.py 1'. The main editor window displays the content of 'Tab Error.py', which contains a Python script with a `TabError` exception. The script is as follows:

```
1 try:
2     # Contoh kode program yang menyebabkan TabError
3     for i in range(5):
4         print(i)
5
6 except TabError as e:
7     print("Terjadi kesalahan:", e)
```

The bottom panel shows the 'TERMINAL' tab, which displays the output of running the script. The output shows the numbers 0 through 4, indicating that the script executed successfully despite the presence of the `TabError` exception in the code.

```
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PS C:\MUHAMAD MUCHIBBULLOH\Pemrograman Berorientasi Obyek\PBO2\Praktikum 5> & C:/Users/ASUS/AppData/Local/Programs/Python/Python311/python.exe "c:/MUHAMAD MUCHIBBULLOH/Pemrograman Berorientasi Obyek/PBO2/Praktikum 5/Tab Error.py"
0
1
2
3
4
PS C:\MUHAMAD MUCHIBBULLOH\Pemrograman Berorientasi Obyek\PBO2\Praktikum 5>
```

Link github : [https://github.com/Muchibbulloh/PBO\\_2](https://github.com/Muchibbulloh/PBO_2)

