

LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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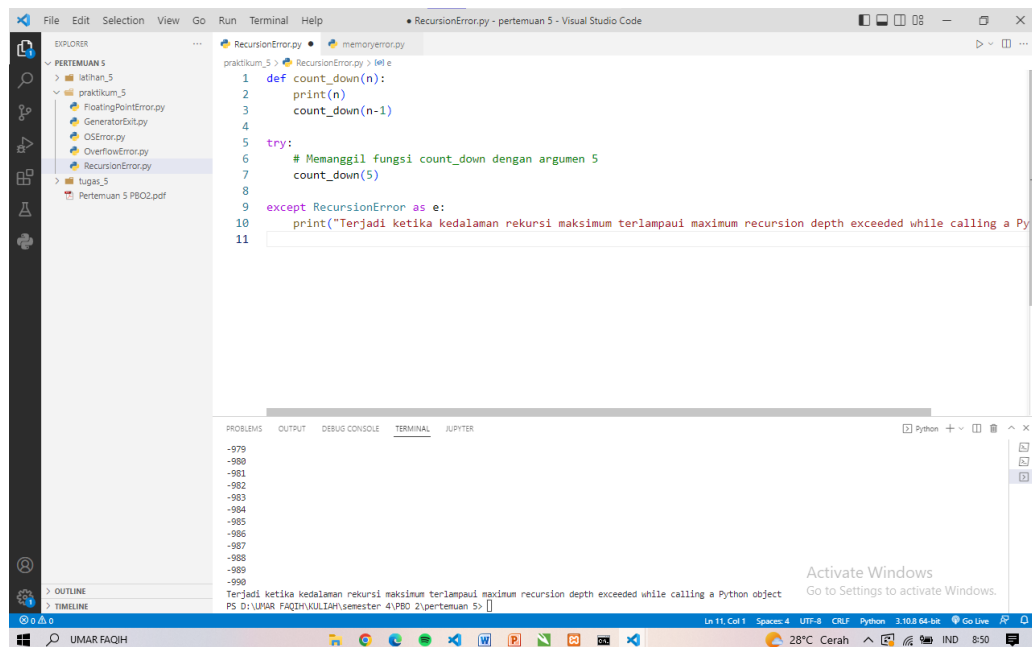
Tugas Praktikum 5 :

Berikan masing-masing 1 contoh Exception Handling dengan contoh yang berbeda dari contoh yang sudah diberikan. Jawaban diupload ke github masing-masing di folder: praktikum5

1. RecursionError

```
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 while calling a Python object")
```

Hasil :

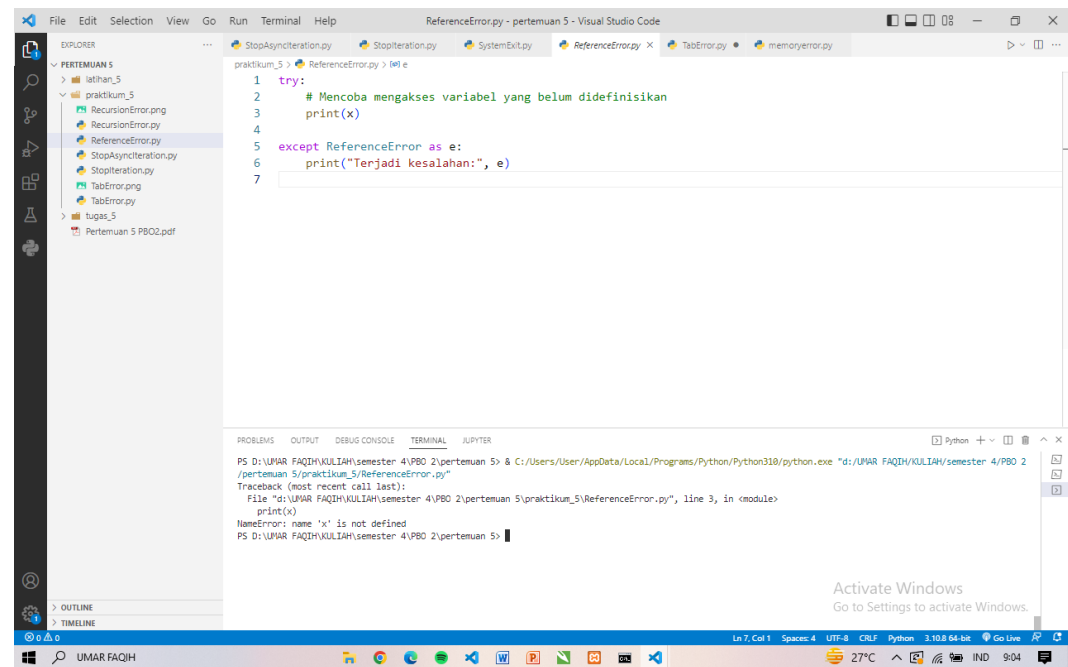


2. ReferenceError

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

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

Hasil :



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with folders 'PERTEMUAN 5' and 'praktikum_5'. The file 'ReferenceError.py' is selected. The main editor shows the following Python code:

```
1 try:
2     # Mencoba mengakses variabel yang belum didefinisikan
3     print(x)
4
5 except ReferenceError as e:
6     print("Terjadi kesalahan:", e)
7
```

The TERMINAL panel at the bottom shows the command prompt output:

```
PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5> & C:/Users/User/AppData/Local/Programs/Python/Python310/python.exe "d:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5\praktikum_5\ReferenceError.py"
Traceback (most recent call last):
  File "d:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5\praktikum_5\ReferenceError.py", line 3, in <module>
    print(x)
NameError: name 'x' is not defined
PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5>
```

The status bar at the bottom indicates the file is at line 7, column 1, with 4 spaces, in UTF-8 encoding, using the Python 3.10.8 64-bit interpreter.

3. StopAsyncIteration

```
import asyncio

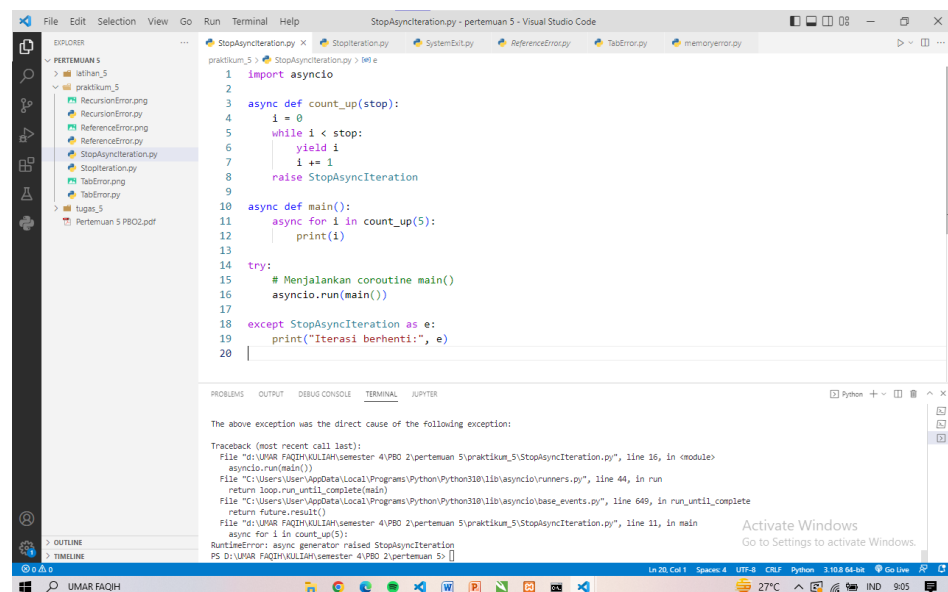
async def count_up(stop):
    i = 0
    while i < stop:
        yield i
        i += 1
    raise StopAsyncIteration

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)
```

Hasil :



```
File "D:\UMAR FAQIH\KULIAH\semester 4\PRO 2\pertemuan 5\praktikum_5\StopAsyncIteration.py", line 16, in (module)
    asyncio.run(main())
File "C:\Users\User\AppData\Local\Programs\Python\Python310\lib\asyncio\runners.py", line 44, in run
    return loop.run_until_complete(main)
File "C:\Users\User\AppData\Local\Programs\Python\Python310\lib\asyncio\base_events.py", line 649, in run_until_complete
    return future.result()
File "D:\UMAR FAQIH\KULIAH\semester 4\PRO 2\pertemuan 5\praktikum_5\StopAsyncIteration.py", line 11, in main
    async for i in count_up(5):
RuntimeError: async generator raised StopAsyncIteration
PS D:\UMAR FAQIH\KULIAH\semester 4\PRO 2\pertemuan 5>
```

4. StopIteration

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

    def __iter__(self):
        return self

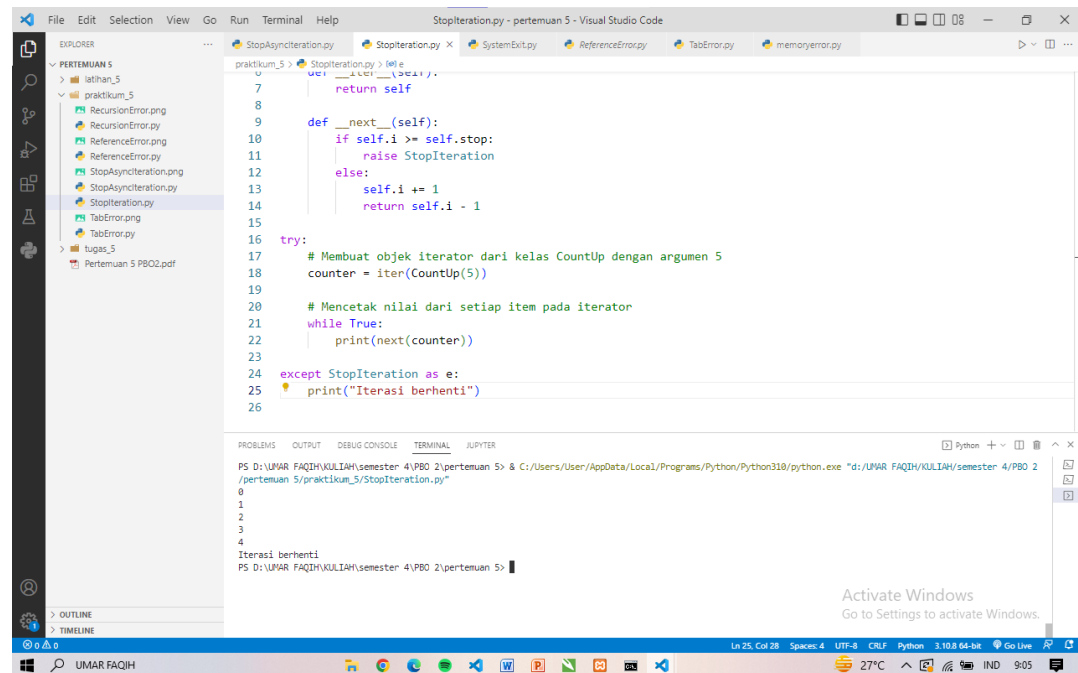
    def __next__(self):
        if self.i >= self.stop:
            raise StopIteration
        else:
            self.i += 1
            return self.i - 1

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")
```

Hasil :



```
praktikum_5 > StopIteration.py > |  
6 def __next__(self):  
7     return self  
8  
9 def __next__(self):  
10    if self.i >= self.stop:  
11        raise StopIteration  
12    else:  
13        self.i += 1  
14        return self.i - 1  
15  
16 try:  
17     # Membuat objek iterator dari kelas CountUp dengan argumen 5  
18     counter = iter(CountUp(5))  
19  
20     # Mencetak nilai dari setiap item pada iterator  
21     while True:  
22         print(next(counter))  
23  
24 except StopIteration as e:  
25     print("Iterasi berhenti")  
26
```

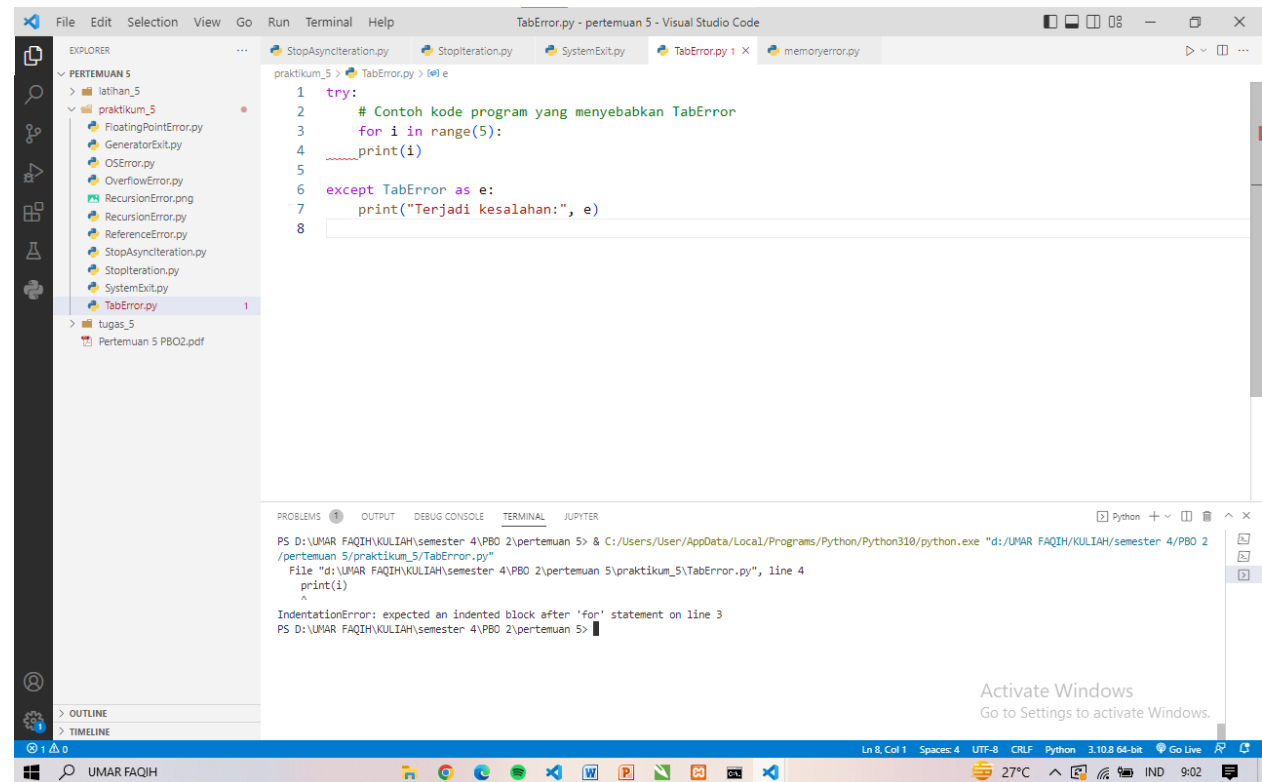
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5> & C:\Users\User\AppData\Local\Programs\Python\Python310\python.exe "d:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5/praktikum_5/StopIteration.py"
0
1
2
3
4
Iterasi berhenti
PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5>

5. StopIteration

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

Hasil :



```
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)
8
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5> C:/Users/User/AppData/Local/Programs/Python/Python310/python.exe "d:/UMAR FAQIH/KULIAH/semester 4/PBO 2/pertemuan 5/praktikum_5/TabError.py"

File "d:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5\praktikum_5\TabError.py", line 4

print(i)

IndentationError: expected an indented block after 'for' statement on line 3

PS D:\UMAR FAQIH\KULIAH\semester 4\PBO 2\pertemuan 5>

Link github < <https://github.com/Umar-Faqih/PBO-2/tree/main/Praktikum> >