

Nama : Fajar Setia Pratama

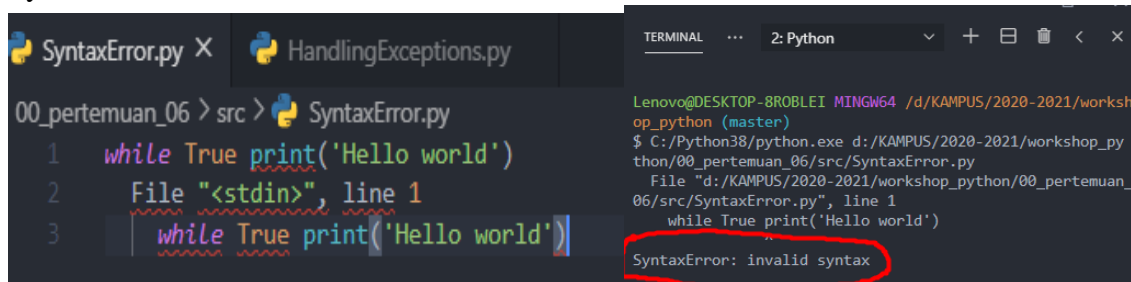
NIM : 145410085

MATKUL : WORKSHOP PYTHON

LINK GITHUB : https://github.com/SetiaP/workshop_python.git

PERTEMUAN 6 : Penanganan Error dan Exception

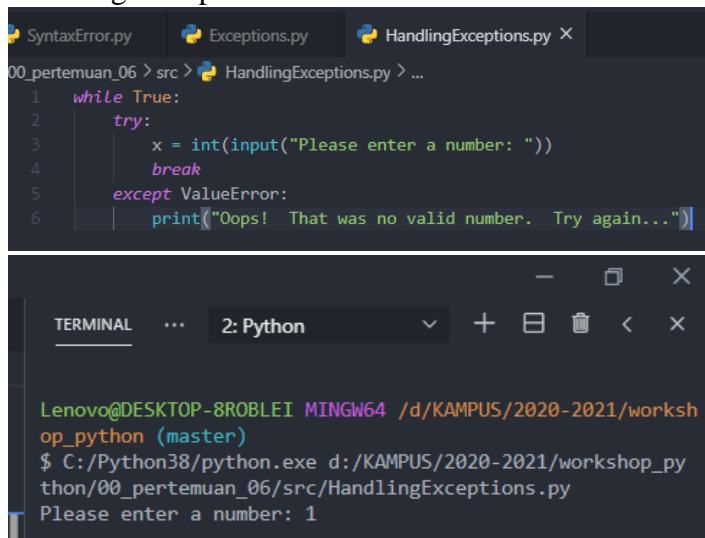
1. Syntax Errors



```
SyntaxError.py X HandlingExceptions.py
00_pertemuan_06 > src > SyntaxError.py
1 while True print('Hello world')
2 File "<stdin>", line 1
3 while True print('Hello world')
SyntaxError: invalid syntax
```

Kesalahan ini disebabkan oleh (atau setidaknya terdeteksi pada) token sebelum panah: dalam contoh, kesalahan terdeteksi pada fungsi print (), karena titik dua (':') tidak ada sebelumnya.

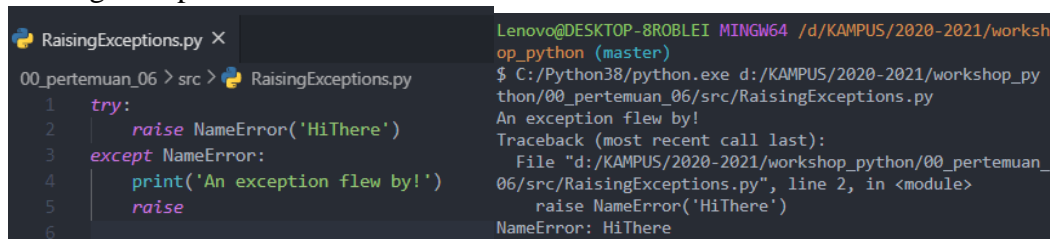
2. Handling Exceptions



```
SyntaxError.py Exceptions.py HandlingExceptions.py X
00_pertemuan_06 > src > HandlingExceptions.py > ...
1 while True:
2     try:
3         x = int(input("Please enter a number: "))
4         break
5     except ValueError:
6         print("Oops! That was no valid number. Try again...")
Please enter a number: 1
```

Pembenaran dari program ke-1 dan dibenarkan di program ke-2.

3. Raising Exceptions



```
RaisingExceptions.py X
00_pertemuan_06 > src > RaisingExceptions.py
1 try:
2     raise NameError('HiThere')
3 except NameError:
4     print('An exception flew by!')
5     raise
6
An exception flew by!
NameError: HiThere
```

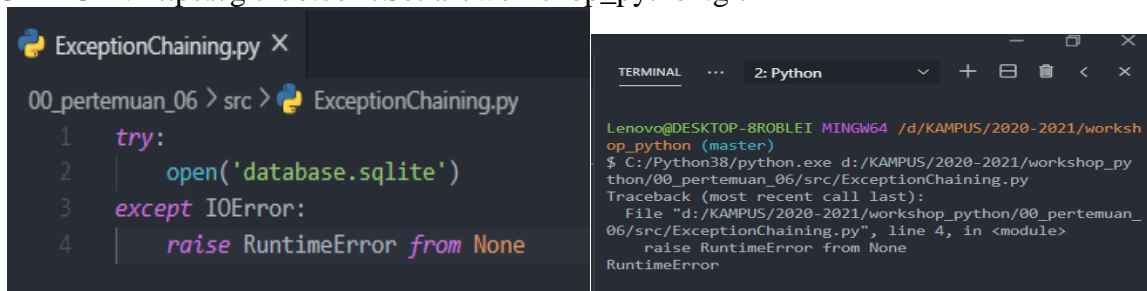
4. Exception Chaining

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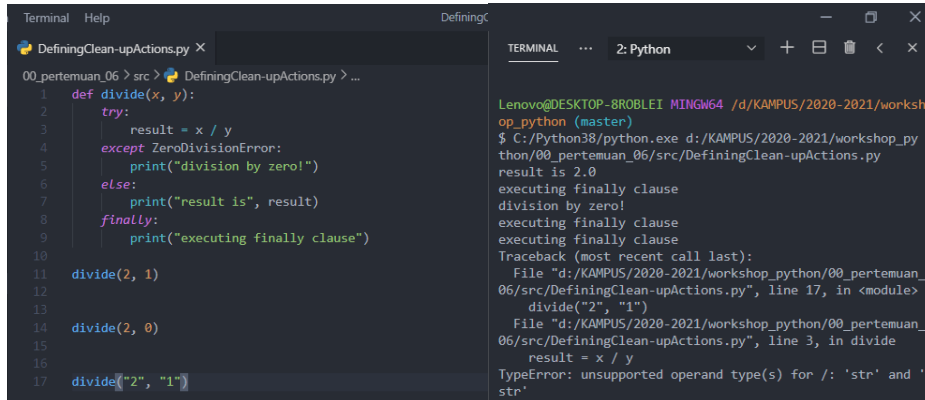
The screenshot shows a code editor with a file named `ExceptionChaining.py`. The code is as follows:

```
00_pertemuan_06 > src > ExceptionChaining.py
1 try:
2     open('database.sqlite')
3 except IOError:
4     raise RuntimeError from None
```

The terminal window on the right shows the command prompt and the execution of the script, which results in a `RuntimeError`.

```
Lenovo@DESKTOP-8ROBLEI MINGW64 /d/KAMPUS/2020-2021/worksh
op_python (master)
$ C:/Python38/python.exe d:/KAMPUS/2020-2021/workshop_py
thon/00_pertemuan_06/src/ExceptionChaining.py
Traceback (most recent call last):
  File "d:/KAMPUS/2020-2021/workshop_python/00_pertemuan_
06/src/ExceptionChaining.py", line 4, in <module>
    raise RuntimeError from None
RuntimeError
```

5. Defining Clean-up Actions



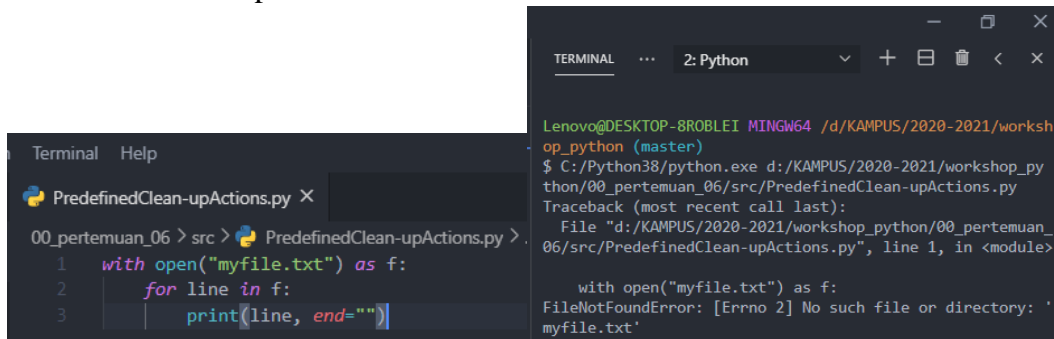
The screenshot shows a code editor with a file named `DefiningClean-upActions.py`. The code is as follows:

```
00_pertemuan_06 > src > DefiningClean-upActions.py > ...
1 def divide(x, y):
2     try:
3         result = x / y
4     except ZeroDivisionError:
5         print("division by zero!")
6     else:
7         print("result is", result)
8     finally:
9         print("executing finally clause")
10
11 divide(2, 1)
12
13
14 divide(2, 0)
15
16
17 divide("2", "1")
```

The terminal window on the right shows the command prompt and the execution of the script, which results in a `TypeError`.

```
Lenovo@DESKTOP-8ROBLEI MINGW64 /d/KAMPUS/2020-2021/worksh
op_python (master)
$ C:/Python38/python.exe d:/KAMPUS/2020-2021/workshop_py
thon/00_pertemuan_06/src/DefiningClean-upActions.py
result is 2.0
executing finally clause
division by zero!
executing finally clause
executing finally clause
Traceback (most recent call last):
  File "d:/KAMPUS/2020-2021/workshop_python/00_pertemuan_
06/src/DefiningClean-upActions.py", line 17, in <module>
    divide("2", "1")
  File "d:/KAMPUS/2020-2021/workshop_python/00_pertemuan_
06/src/DefiningClean-upActions.py", line 3, in divide
    result = x / y
TypeError: unsupported operand type(s) for /: 'str' and '
str'
```

6. Predefined Clean-up Actions



The screenshot shows a code editor with a file named `PredefinedClean-upActions.py`. The code is as follows:

```
00_pertemuan_06 > src > PredefinedClean-upActions.py > .
1 with open("myfile.txt") as f:
2     for line in f:
3         print(line, end="")
```

The terminal window on the right shows the command prompt and the execution of the script, which results in a `FileNotFoundError`.

```
Lenovo@DESKTOP-8ROBLEI MINGW64 /d/KAMPUS/2020-2021/worksh
op_python (master)
$ C:/Python38/python.exe d:/KAMPUS/2020-2021/workshop_py
thon/00_pertemuan_06/src/PredefinedClean-upActions.py
Traceback (most recent call last):
  File "d:/KAMPUS/2020-2021/workshop_python/00_pertemuan_
06/src/PredefinedClean-upActions.py", line 1, in <module>
    with open("myfile.txt") as f:
FileNotFoundError: [Errno 2] No such file or directory: '
myfile.txt'
```