

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

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Berikan masing-masing 1 contoh untuk Exception Handling yang belum ada contohnya.

JAWABAN:

- 1. Assertion Error
 - Source Code

```
def divide(num1, num2):
    assert num2 != 0, "Tidak dapat di bagi dengan nol"
    return num1 / num2

try:
    result = divide(100, 0)
    print(result)
except AssertionError as error:
    print(error)
```

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Assertion_Error.py Tidak dapat di bagi dengan nol
```

2. EOFE Error

• Source Code

```
1
        nama = input ("Nama Lengkap: ")
 2
        address = input("Alamat: ")
3
4
        if not address:
       raise EOFError("tidak ada input yang diterima")
6
7
       print("Nama Lengkap: "+ nama)
8
        print("Alamat: " + address)
g
10 except EOFError as error:
        print(error)
11
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py EOFE_error.py
Nama Lengkap: Ayu Nurul Khairunnisa
Alamat: Cirebon
Nama Lengkap: Ayu Nurul Khairunnisa
Alamat: Cirebon
```

3. Floatingpoint Error

Source Code

```
import math

try:
    result = math.sqrt(-1)
    print(result)
    except FloatingPointError as error:
    print(error)
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Floatingpoint_Error.py
Traceback (most recent call last):
   File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Floatingpoint_Error.py", line 4, in <module>
   result = math.sqrt(-1)
ValueError: math domain error
```

4. Generator Exit

• Source Code

```
1 vdef my_generator():
 2
         try:
 3
             yield 11
 4
             yield 12
 5
             yield 13
 6
         except GeneratorExit:
 7
             print("Generator stopped")
 8
 9
     gen = my_generator()
10
11
     print(next(gen))
     print(next(gen))
12
13
     gen.close()
14
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Generator_Exit.py
11
12
Generator stopped
```

5. Import Error

• Source Code

```
1 try:
2 import filetidakdiketahui
3 except ImportError as error:
4 print(error)
```

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Import_Error.py
No module named 'filetidakdiketahui'
```

6. Notimplemented Error

• Source Code

```
1 v class Handphone:
        def sound(self):
          raise NotImplementedError("Method 'sound' belum diimplementasikan")
5 \vee class Samsung(Handphone):
      def sound(self):
        return "Samsung"
9 ∨ class Redmi(Handphone):
10
      pass
12 vdef make_sound(handphone):
13 ∨
        return handphone.sound()
14
        except NotImplementedError as error:
15 V
      print(error)
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Notimplemented_Error.py
Samsung
Method 'sound' belum diimplementasikan
None
```

7. OS Error

• Source Code

```
try:
file = open("filebts.txt", "r")
except OSError as error:
print(error)
```

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py OS_Error.py [Errno 2] No such file or directory: 'filebts.txt'
```

8. Overflow Error

• Source Code

```
import sys

try:

a = sys.maxsize + 1

b = a * b

except OverflowError as error:

print(error)
```

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Overflow_Error.py
Traceback (most recent call last):
   File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Overflow_Error.py", line 5, in <module>
        b = a * b
NameError: name 'b' is not defined
```

9. Recursive Error

• Source Code

```
def count_down(num):
    print(num)
    count_down(num - 1)

try:
    count_down(100)
    except RecursionError as error:
    print(error)
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Recursive_Error.py
98
97
96
95
94
93
92
91
90
89
88
87
-882
-883
-884
-885
-886
-887
-888
-889
-890
-891
-892
-893
-894
-895
maximum recursion depth exceeded while calling a Python object
```

10. Reference Error

• Source Code

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Reference_Error.py
Traceback (most recent call last):
   File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Reference_Error.py", line 6, in <module>
        print_list(undefined_list)
NameError: name 'undefined_list' is not defined
```

11. Runtime Error

• Source Code

```
1
     def divide(a, y):
 2
         if y == 0:
 3
             raise RuntimeError("pembagian dengan 0")
 4
         else:
 5
             return a / y
 6
 7
     try:
 8
         result = divide(10, 0)
 9
     except RuntimeError as error:
10
         print(error)
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Runtime_Error.py pembagian dengan 0
```

12. Stop Async Iteration

• Source Code

```
import asyncio
 2
     async def countdown(num):
 4
         while num > 0:
 5
            print(num)
 6
             await asyncio.sleep(1)
 7
             num -= 1
 8
         raise StopAsyncIteration
 9
10
11
    async def main():
12
         try:
13
            await countdown(5)
         except StopAsyncIteration:
14
15
             print("Countdown stopped!")
16
     asyncio.run(main())
17
```

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Stop_Async_Iteration.py

4

3

2

1

Countdown stopped!
```

13. Stop Iteration

• Source Code

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Stopiteration.py

1

2

3

Iteration stopped!
```

14. Syntax Error

• Source Code

```
try:
print("Selamat Datang!")

except SyntaxError:
print("Kesalahan sintaks terdeteksi!")
```

Output

PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py syntax_error.py Selamat Datang!

15. System Error

• Source Code

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py System_Error.py
Terjadi SystemError: Jumlah iterasi harus lebih dari 0
```

16. System Exit

• Source Code

```
import sys

import sys

rry:

print("Program dimulai")

sys.exit()

print("Program selesai")

except SystemExit:

print("Program dihentikan")
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py System_Exit.py
Program dimulai
Program dihentikan
```

17. Tab Error

• Source Code

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Tab_Error.py
0
1
2
Item ke-2
Sedang dijalankan
3
4
```

18. Unboundlocal Error

• Source Code

```
1
     def calculate_area(radius):
          if radius <= 0:
 2
 3
             raise ValueError("radius harus lebih besar dari 0.")
 4
          else:
 5
              try:
 6
                  area = 3.14 * radius ** 2
                  print("Area lingkaran:", area)
 7
                  radius = 0
 8
 9
              except UnboundLocalError as e:
                  print("Error: ", e)
10
11
                  radius = 0
12
13
         return radius
14
15
     calculate area(-5)
```

• Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Unboundlocal_Error.py
Traceback (most recent call last):
    File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Unboundlocal_Error.py", line 15, in <module>
        calculate_area(-5)
    File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Unboundlocal_Error.py", line 3, in calculate_area
        raise ValueError("radius harus lebih besar dari 0.")
ValueError: radius harus lebih besar dari 0.
```

19. Unicode Decode Error

Source Code

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py unicode_decode_error.py PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5>
```

20. Unicode Encode Error

• Source Code

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Unicode_Encode_Error.py PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5>
```

21. Unicode Error

• Source Code

Output

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Unicode_Error.py Welcome Di Dunia!
Welcome Di Dunia!
```

22. Unicode Translate Error

• Source Code

```
1 try:
2 s = '你好世界'
3 s.encode('ascii')
4 except UnicodeTranslateError:
5 print("Error: Failed to translate the string to ASCII encoding")
```

```
PS C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5> py Unicode_Translate_Error.py
Traceback (most recent call last):
    File "C:\KULIAH UMC\PBO LANJUT\EXCEPTION HANDLING\Tugas 5\Unicode_Translate_Error.py", line 3, in <module>
        s.encode('ascii')
UnicodeEncodeError: 'ascii' codec can't encode characters in position 0-3: ordinal not in range(128)
```