

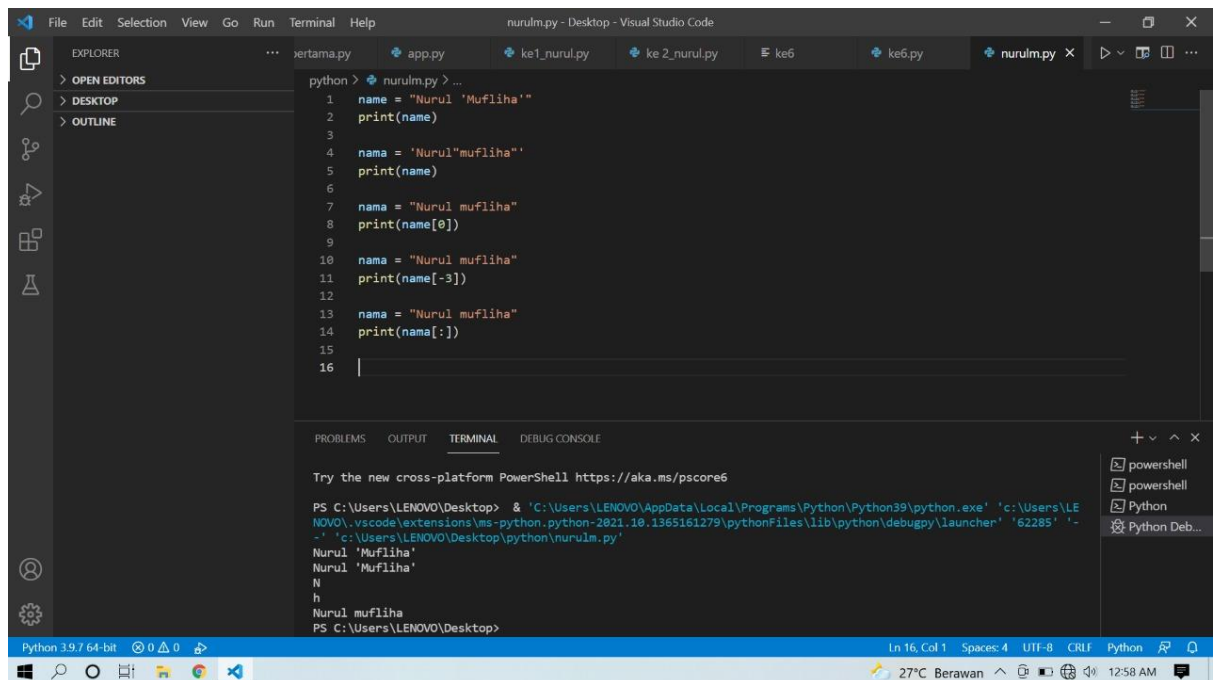
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## 1. String

String adalah kumpulan dari berbagai karakter. Contohnya bisa di lihat pada contoh kodingan di bawah ini.



The screenshot shows the Visual Studio Code interface with a Python file named `nurulm.py` open. The code in the editor is as follows:

```
1 name = "Nurul 'Mufliha'"
2 print(name)
3
4 nama = "Nurul\"mufliha\""
5 print(nama)
6
7 nama = "Nurul mufliha"
8 print(name[0])
9
10 nama = "Nurul mufliha"
11 print(name[-3])
12
13 nama = "Nurul mufliha"
14 print(nama[:])
15
16
```

The terminal at the bottom shows the execution of the script using PowerShell. The output is:

```
PS C:\Users\LENOVO\Desktop> & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\python\debugpy\launcher' '62285' '->' 'c:\Users\LENOVO\Desktop\python\nurulm.py'
Nurul 'Mufliha'
Nurul 'Mufliha'
N
h
Nurul mufliha
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is at line 16, column 1, with 4 spaces, using UTF-8 encoding and CR/LF line endings. The system tray shows the temperature as 27°C in Berawan and the time as 12:58 AM.

## 2. FORMATED STRING

Formatted string ini kita pakai jika kita ingin menampilkan output format agak rumit karena di sini menggunakan angka.

The screenshot shows the Visual Studio Code interface with a Python file named `nurulm.py` open. The code defines variables for a first name, last name, and age, and uses string formatting to create a message. The terminal shows the output of the script, which prints the message and the age.

```
python > nurulm.py > ...
1 first_name = "Nurulmufliha"
2 last_name = "Nurulmufliha"
3
4 message = first_name + "[" + last_name + "]"
5 message = f"{first_name} [{last_name}]"
6
7 print(message)
8
9 age = 19
10
11 message = f"umur kamu {age}"
12
13 print(message)
```

```
PS C:\Users\LENOVO\Desktop> c:\> cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\python\debugpy\launcher' '62289' '-' 'c:\Users\LENOVO\Desktop\python\nurulm.py'
Nurulmufliha[Nurulmufliha]
umur kamu 19
PS C:\Users\LENOVO\Desktop> c:\> cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\python\debugpy\launcher' '62293' '-' 'c:\Users\LENOVO\Desktop\python\nurulm.py'
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

### 3. STRING METHOD

Disini mulai di bahas tentang fungsi-fungsi apa saja yang ada dalam string. Tetapi yang di gunakan dalam kodingan yang saya buat hanya string yang sering muncul

The screenshot shows the Visual Studio Code interface with a Python file named `nurulm.py` open. The code demonstrates various string methods like `len()`, `upper()`, `lower()`, and `capitalize()` applied to a string. The terminal shows the output of the script, which prints the length of the string, the string in uppercase, the string in lowercase, and the string with the first letter capitalized.

```
python > nurulm.py > ...
1 course = "Belajar Python Bareng Nurul Mufliha"
2 length = len(course)
3
4 print(length)
5
6 course = "Belajar Python Bareng Nurul Mufliha"
7 print(course.upper())
8 print(course)
9
10 course = "Belajar Python Bareng Nurul Mufliha"
11 course_capital = course.upper()
12 print(course_capital)
13
14 course = "Belajar Python Bareng Nurul Mufliha"
15 print(course.lower())
16
17 course = "Beelajar Python Bareng Nurul Mufliha"
18 print(course.capitalize())
19
```

```
PS C:\Users\LENOVO\Desktop> python .\nurulm.py
35
BELAJAR PYTHON BEREANG NURUL MUFLIHA
Belajar Python Bareng Nurul Mufliha
BELAJAR PYTHON BEREANG NURUL MUFLIHA
belajar python bareng nurul mufliha
Beelajar python bareng nurul mufliha
Belajar Python Bareng Nurul Mufliha
Belajar Python Bareng Nurul Mufliha
False
javascript
PS C:\Users\LENOVO\Desktop>
```

```
python > nurulm.py > ...
17 course = "Beelajar Python Bareng Nurul Mufliha"
18 print(course.capitalize())
19
20 course = "Belajar Python Bareng Nurul Mufliha"
21 print(course.title())
22
23 course = "Belajar Python Bareng Nurul Mufliha"
24 print(course.replace("pyhon", "javascript"))
25
26 course = "Belajar Pyhon Bareng Nurul Mufliha"
27 language = "python"
28 print(language in course)
29
30 course = "Belajar Python Bareng Nurul Mufliha"
31 language = "javascrip"
32 print(language)
33
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
- 'c:\Users\LENOVO\Desktop\python\nurulm.py'
35
BELAJAR PYTHON BERENG NURUL MUFLIHA
Belajar Python Bareng Nurul Mufliha
BELAJAR PYTHON BARENG NURUL MUFLIHA
belajar python bareng nurul mufliha
Beelajar python bareng nurul mufliha
Belajar Python Bareng Nurul Mufliha
Belajar Python Bareng Nurul Mufliha
False
javascript
PS C:\Users\LENOVO\Desktop>
```

#### 4. MATEMATIKA

Disini akan di bahas tettang matematika yaitu mulai dari penjumlahan, pengurangan dan beberapa simbol dalam matematika

```
python > nurulm.py > ...
1 number = 12 +20
2 print(number)
3
4 number = 15 + (20 * 3)
5 print(number)
6
7 number = (12 + 20)* 3 ** 4
8 print(number)
9
10 number = 12 - 20
11 print(number)
12
13 number = 12 - (20 * 3)
14 print(number)
15
16 number = (12 - 20) * 3 ** 4
17 print(number)
18
19
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
.\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\p
ython\debugpy\launcher' '62305' '--' 'c:\Users\LENOVO\Desktop\python\nurulm.py'
14
10
24
6.0
144
0
32
20
-8
PS C:\Users\LENOVO\Desktop>
```

```
python > nurulm.py > ...
18 y = 2
19 print(x ** y)
20
21 x = 12
22 y = 2
23 print(x % y)
24
25 x = 12
26 x = x + 20
27 print(x)
28
29 x = 12
30 x = 20
31 print(x)
32
33 x = 12
34 x -= 20
35 print(x)
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonfiles\lib\p
ython\debugpy\launcher' '62305' '--' 'c:\Users\LENOVO\Desktop\python\nurulm.py'
14
18
24
6.0
144
0
32
20
-8
PS C:\Users\LENOVO\Desktop>
```

## 5. OPERATOR PRENCEDENCE

Disini masih membahas tentang matematika juga yaitu penjumlahan, pengurangan, perkalian, dan pembagian. Dan masih banyak lagi simbol-simbol dalam matematika

```
python > nurulm.py > ...
1 number = 12 + 20
2 print(number)
3
4 number = 15 + (20 * 3)
5 print(number)
6
7 number = (12 + 20) * 3 ** 4
8 print(number)
9
10 number = 12 - 20
11 print(number)
12
13 number = 12 - (20 * 3)
14 print(number)
15
16 number = (12 - 20) * 3 ** 4
17 print(number)
18
19 #####
20
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
32
75
2592
-8
-48
-648
PS C:\Users\LENOVO\Desktop> c:: cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python
\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonfiles\lib\p
ython\debugpy\launcher' '62313' '--'
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

```
python > nurulm.py > ...
10 number = 12 - 20
11 print(number)
12
13 number = 12 - (20 * 3)
14 print(number)
15
16 number = (12 - 20) * 3 ** 4
17 print(number)
18
19 #tanda kurang
20 #perkalian
21 #perkalian dan pembagian
22 #penjumlahan atau pengurangan
23
```

```
32
75
2592
-8
-48
-648

PS C:\Users\LENOVO\Desktop> c:; cd 'C:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\python\debugpy\launcher' '62313' '-'
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

## 6. MATH MODULE

Disini akan di bahas tentang fungsi-fungsi yang bisa di gunakan di dalam angka untuk kodingan python (fungsi-fungsi tentang matematika) contohnya bisa di lihat di bawah ini

```
python > nurulm.py > ...
1 number = 6.3
2 number = round(number)
3 print(number)
4
5 number = 6.3
6 number = round(number)
7 print(number)
8
9 import math
10
11 number = 6.3
12 number = math.ceil(number)
13 print(number)
14
15 import math
16
17 number = 6.3
18 number = math.flarr(number)
19
```

```
PS C:\Users\LENOVO\Desktop> & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\python\debugpy\launcher' '62317' '-'
6
7
Traceback (most recent call last):
  File "c:\Users\LENOVO\Desktop\python\nurulm.py", line 18, in <module>
    number = math.flarr(number)
AttributeError: module 'math' has no attribute 'flarr'
PS C:\Users\LENOVO\Desktop>
```

