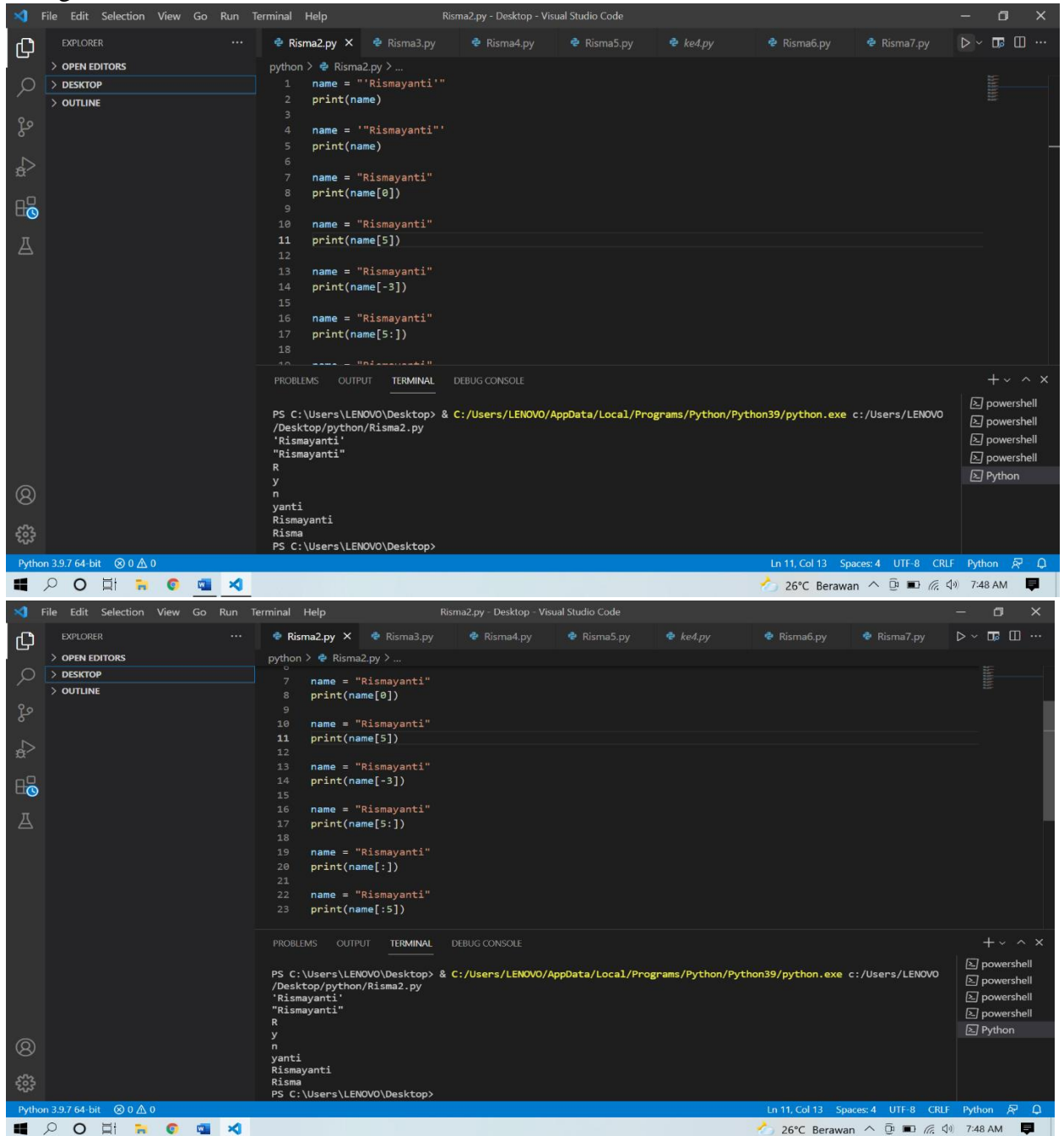


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## 1. String



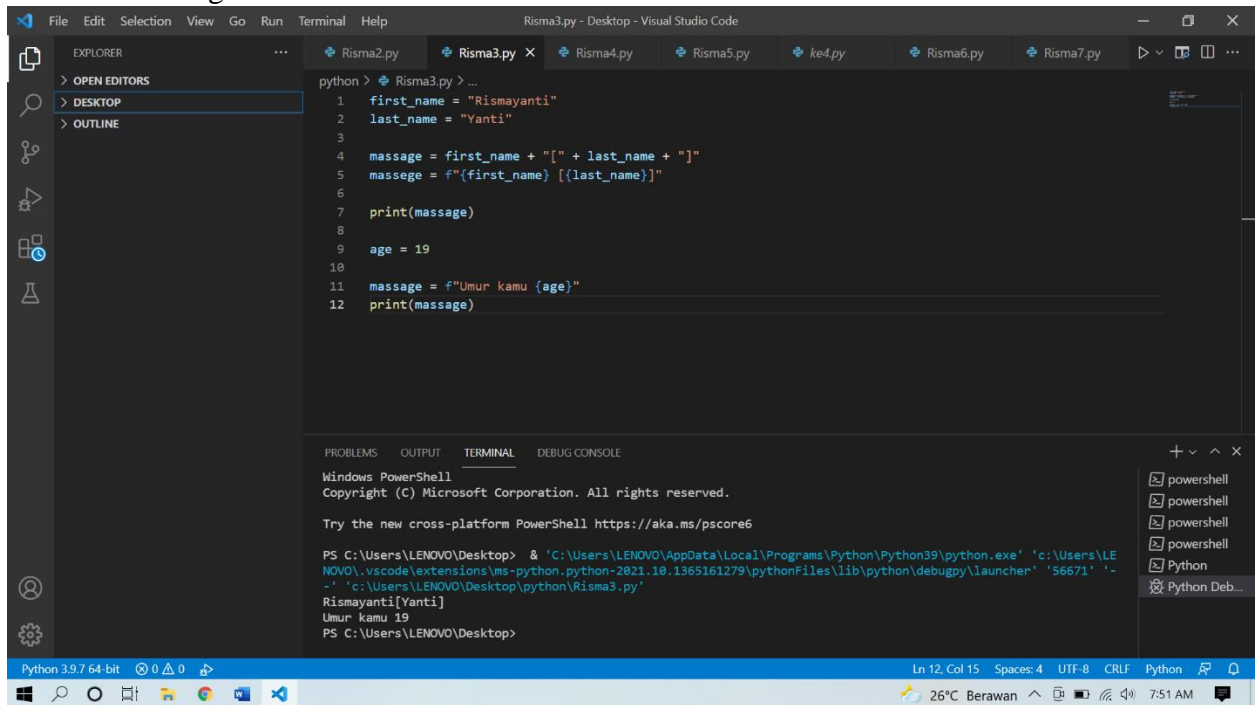
```
python > Risma2.py > ...
1  name = "Rismayanti"
2  print(name)
3
4  name = 'Rismayanti'
5  print(name)
6
7  name = "Rismayanti"
8  print(name[0])
9
10 name = "Rismayanti"
11 print(name[5])
12
13 name = "Rismayanti"
14 print(name[-3])
15
16 name = "Rismayanti"
17 print(name[5:])
18 name = "Rismayanti"

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/Risma2.py
'Rismayanti'
'Rismayanti'
R
y
n
yanti
Rismayanti
Risma
PS C:\Users\LENOVO\Desktop>
```

```
python > Risma2.py > ...
7  name = "Rismayanti"
8  print(name[0])
9
10 name = "Rismayanti"
11 print(name[5])
12
13 name = "Rismayanti"
14 print(name[-3])
15
16 name = "Rismayanti"
17 print(name[5:])
18
19 name = "Rismayanti"
20 print(name[:])
21
22 name = "Rismayanti"
23 print(name[:5])

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/Risma2.py
'Rismayanti'
'Rismayanti'
R
y
n
yanti
Rismayanti
Risma
PS C:\Users\LENOVO\Desktop>
```

## 2. Formatted String



The screenshot shows the Visual Studio Code interface with a Python file named `Risma3.py` open. The code defines `first_name` as "Rismayanti" and `last_name` as "Yanti". It concatenates them into a `message` string and prints it. It also uses an f-string to create a `massege` string (note the typo) and prints it. Finally, it defines `age` as 19 and prints a message using `age` in an f-string.

```
python > Risma3.py > ...
1 first_name = "Rismayanti"
2 last_name = "Yanti"
3
4 message = first_name + "[" + last_name + "]"
5 massege = f"{first_name} [{last_name}]"
6
7 print(message)
8
9 age = 19
10
11 message = f"Umur kamu {age}"
12 print(message)
```

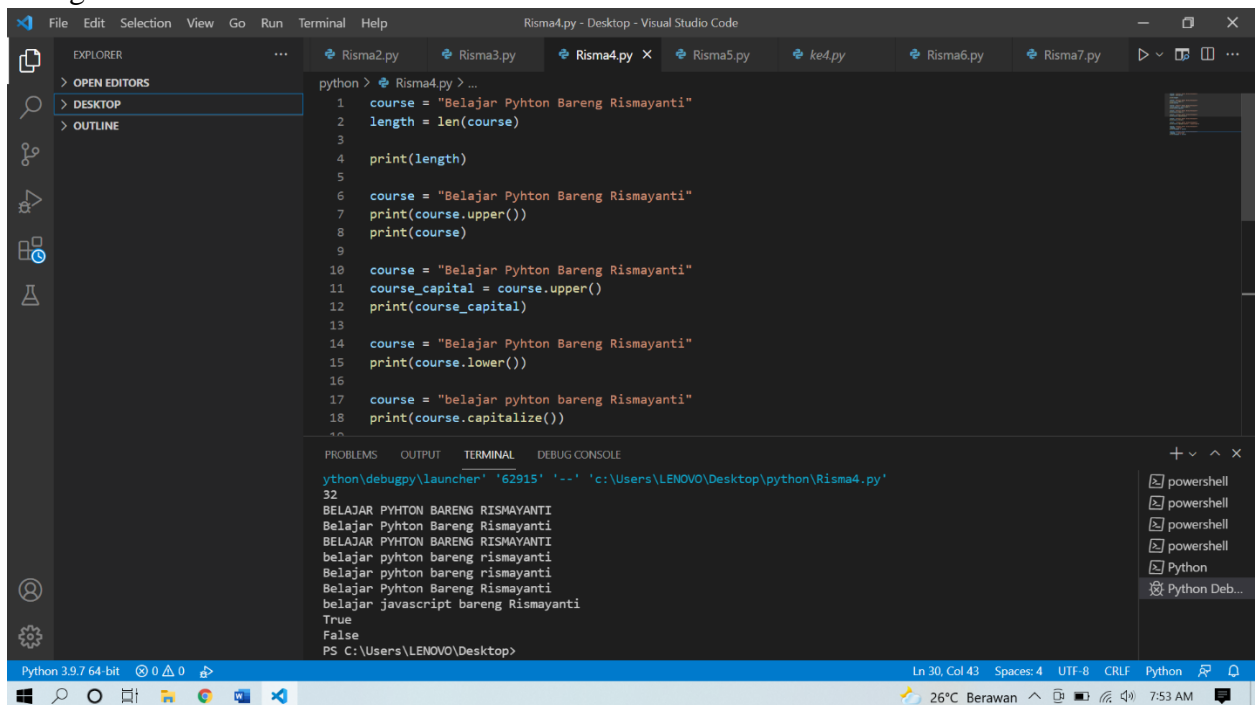
The terminal output shows the execution of the script, displaying the concatenated message and the age message.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

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' '56671' '-
-' 'c:\Users\LENOVO\Desktop\python\Risma3.py'
Rismayanti[Yanti]
Umur kamu 19
PS C:\Users\LENOVO\Desktop>
```

## 3. String Method



The screenshot shows the Visual Studio Code interface with a Python file named `Risma4.py` open. The code demonstrates various string methods on the string "Belajar Pyhton Bareng Rismayanti". It shows how to get the length, convert to uppercase, lowercase, and capitalize.

```
python > Risma4.py > ...
1 course = "Belajar Pyhton Bareng Rismayanti"
2 length = len(course)
3
4 print(length)
5
6 course = "Belajar Pyhton Bareng Rismayanti"
7 print(course.upper())
8 print(course)
9
10 course = "Belajar Pyhton Bareng Rismayanti"
11 course_capital = course.upper()
12 print(course_capital)
13
14 course = "Belajar Pyhton Bareng Rismayanti"
15 print(course.lower())
16
17 course = "belajar pyhton bareng Rismayanti"
18 print(course.capitalize())
19
```

The terminal output shows the execution of the script, displaying the length of the string, the uppercase and lowercase versions, and the capitalized version.

```
python\debugpy\launcher' '62915' '--' 'c:\Users\LENOVO\Desktop\python\Risma4.py'
32
BELAJAR PYHTON BARENG RISMAYANTI
Belajar Pyhton Bareng Rismayanti
BELAJAR PYHTON BARENG RISMAYANTI
belajar pyhton bareng rismayanti
Belajar pyhton bareng rismayanti
Belajar Pyhton Bareng Rismayanti
belajar javascript bareng Rismayanti
True
False
PS C:\Users\LENOVO\Desktop>
```

The screenshot shows the Visual Studio Code interface with the file explorer on the left. The main editor displays the code for `Risma4.py`. The code defines a string `course` and performs several string operations: `lower()`, `capitalize()`, `title()`, `replace()`, and `in` checks. The terminal at the bottom shows the execution output.

```
python > Risma4.py > ...
15 print(course.lower())
16
17 course = "belajar pyhton bareng Rismayanti"
18 print(course.capitalize())
19
20 course = "belajar pyhton bareng Rismayanti"
21 print(course.title())
22
23 course = "belajar pyhton bareng Rismayanti"
24 print(course.replace("pyhton", "javascript"))
25
26 course = "belajar pyhton bareng Rismayanti"
27 language = "pyhton"
28 print(language in course)
29
30 course = "belajar pyhton bareng Rismayanti"
31 language = "javascript"
32 print(language in course)
```

```
python\debugpy\launcher '62915' '--' 'c:\Users\LENOVO\Desktop\python\Risma4.py'
32
BELAJAR PYHTON BARENG RISMAYANTI
Belajar Pyhton Bareng Rismayanti
BELAJAR PYHTON BARENG RISMAYANTI
belajar pyhton bareng rismayanti
Belajar pyhton bareng rismayanti
Belajar Pyhton Bareng Rismayanti
belajar javascript bareng Rismayanti
True
False
PS C:\Users\LENOVO\Desktop>
```

#### 4. Matematika

The screenshot shows the Visual Studio Code interface with the file explorer on the left. The main editor displays the code for `Risma6.py`. The code performs arithmetic operations on variables `x` and `y`: addition, subtraction, multiplication, and division. The terminal at the bottom shows the execution output.

```
python > Risma6.py > ...
1 x = 20
2 y = 10
3 print(X + Y)
4
5 x = 20
6 y = 10
7 print(x - y)
8
9 x = 20
10 y = 10
11 print(x * y)
12
13 x = 20
14 y = 10
15 print(x / y)
16
17 x = 20
18 y = 10
19 print(x // y)
20
```

```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\p
ython\debugpy\launcher' '55989' '--' 'c:\Users\LENOVO\Desktop\python\Risma6.py'
30
10
200
2.0
10240000000000
0
45
45
-5
PS C:\Users\LENOVO\Desktop>
```

The screenshot shows the Visual Studio Code interface with the file `Risma6.py` open. The script contains the following Python code:

```
python > Risma6.py > ...
18 y = 10
19 print(x ** y)
20
21 x = 20
22 y = 10
23 print(x % y)
24
25 x = 20
26 x = x + 25
27 print(x)
28
29 x = 20
30 x += 25
31 print(x)
32
33 x = 20
34 x -= 25
35 print(x)
```

The terminal output shows the execution of the script, displaying the results of the operations:

```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\p
ython\debugpy\launcher' '55989' '--' 'c:\Users\LENOVO\Desktop\python\Risma6.py'
30
10
200
2.0
1024000000000000
0
45
45
-5
PS C:\Users\LENOVO\Desktop>
```

## 5. Operator Precedence

The screenshot shows the Visual Studio Code interface with the file `Risma5.py` open. The script contains the following Python code:

```
python > Risma5.py > ...
1 number = 18 + 25
2 print(number)
3
4 number = 18 + (25 * 3)
5 print(number)
6
7 number = (18+ 25) * 3 ** 4
8 print (number)
9
10 number = 18 - 25
11 print(number)
12
13 number = 18 - (25 * 3)
14 print(number)
15
16 number = (18 - 25) * 3 ** 4
17 print(number)
18
19 #End of Program
```

The terminal output shows the execution of the script, displaying the results of the operations:

```
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' '53122' '--' 'c:\Users\LENOVO\Desktop\python\Risma5.py'
43
93
3483
-7
-57
-567
PS C:\Users\LENOVO\Desktop>
```

```
python > Risma5.py > ...
5 print(number)
6
7 number = (18+ 25) * 3 ** 4
8 print (number)
9
10 number = 18 - 25
11 print(number)
12
13 number = 18 - (25 * 3)
14 print(number)
15
16 number = (18 - 25) * 3 ** 4
17 print(number)
18
19 #tanda kurung
20 #perkalian
21 #perpangkatan dan pembagian
22 #penjumlahan atau pengurangan
```

```
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' '53122' '--' 'c:\Users\LENOVO\Desktop\python\Risma5.py'
```

## 6. Math Module

```
python > Risma7.py > ...
1 number = 10.5
2 number = round(number)
3 print(number)
4
5 number = 10.5
6 number = round(number)
7 print(number)
8
9 import math
10
11 number = 10.5
12 number = math.ceil(number)
13 print(number)
14
15 import math
16
17 number = 10.5
18 number = math.floor(number)
```

```
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' '54361' '--' 'c:\Users\LENOVO\Desktop\python\Risma7.py'
```