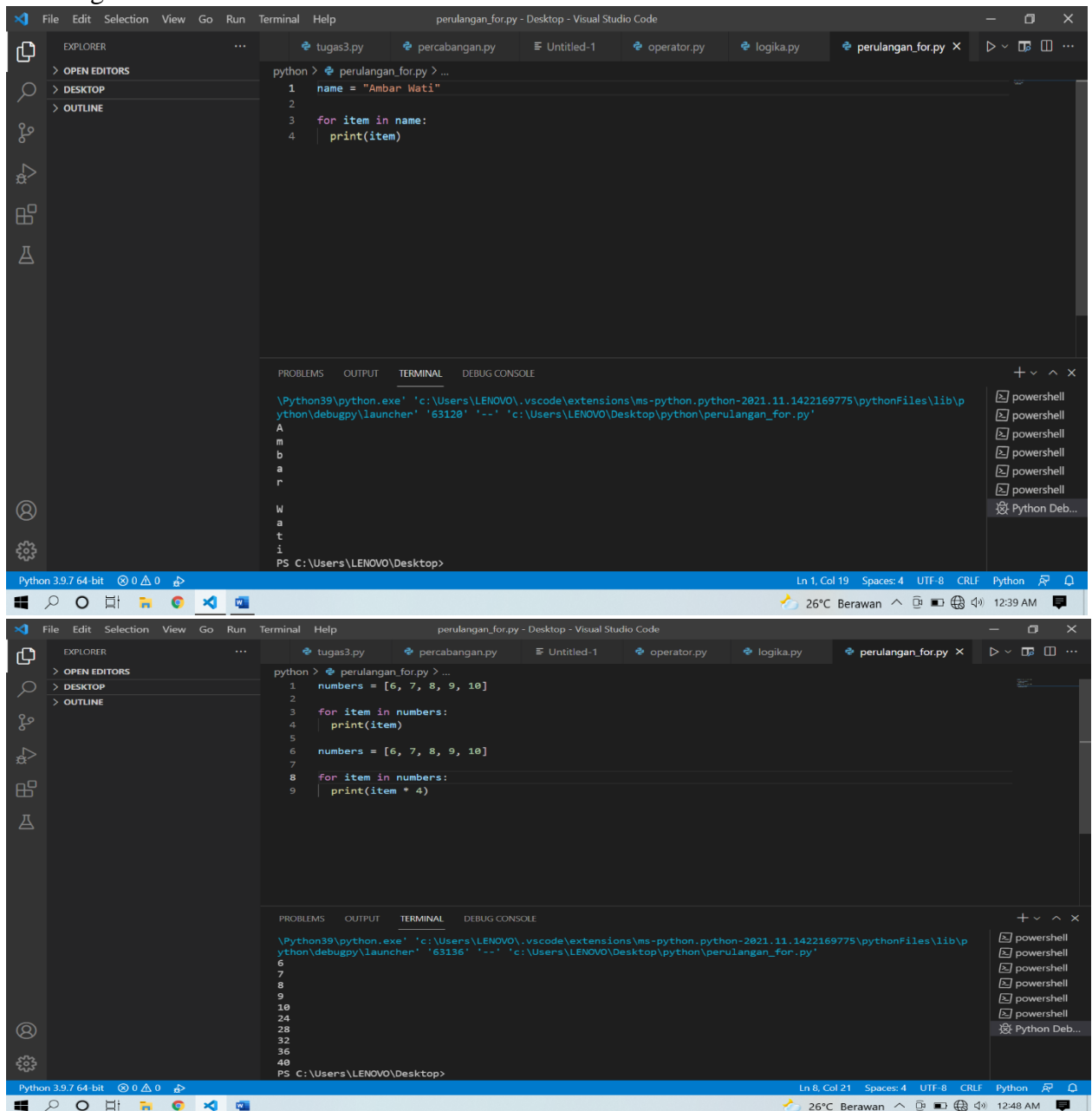


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Pyhton 4

1. Perulangan For



The image displays two screenshots of the Visual Studio Code editor interface, showing Python code and its execution results in the terminal.

Top Screenshot:

- File Explorer:** Shows the project structure with files: tugas3.py, percabangan.py, Untitled-1, operator.py, logika.py, and perulangan_for.py.
- Code Editor:** Displays the following Python code in `perulangan_for.py`:

```
python > perulangan_for.py > ...  
1 name = "Ambar Wati"  
2  
3 for item in name:  
4     print(item)
```
- Terminal:** Shows the output of the code execution:

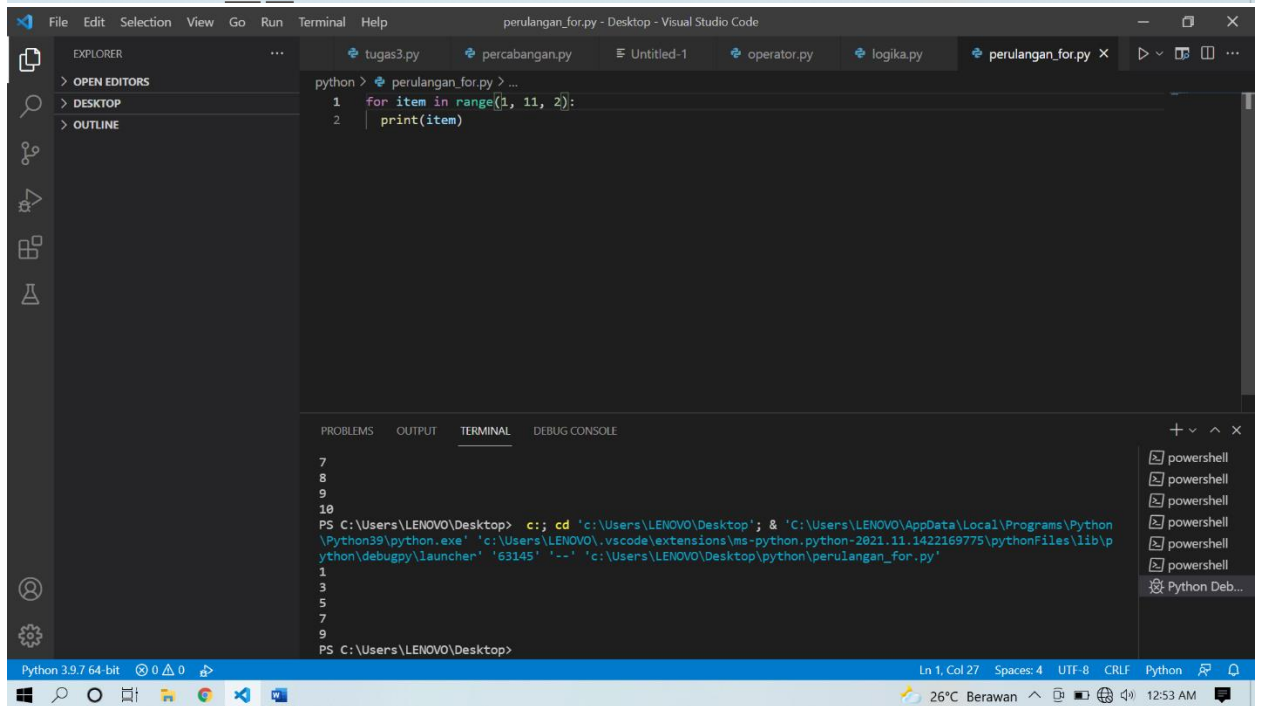
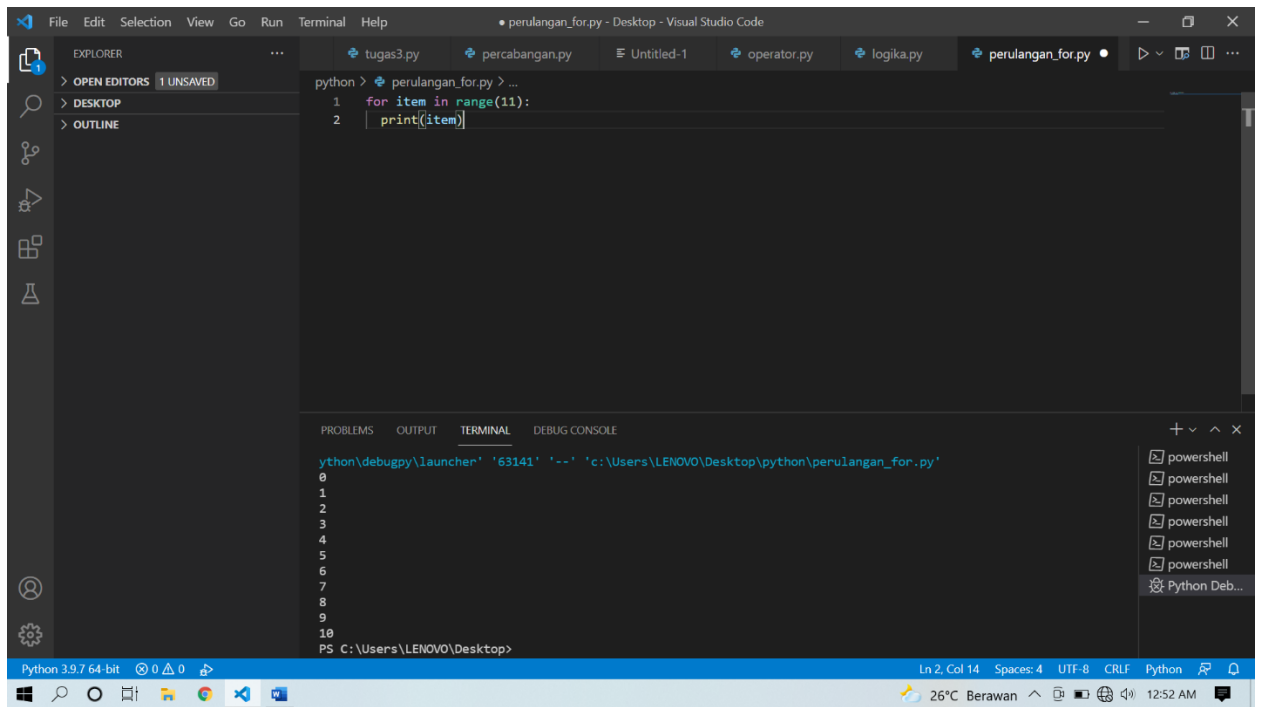
```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\p  
ython\debugpy\launcher' '63120' '--' 'c:\Users\LENOVO\Desktop\python\perulangan_for.py'  
A  
m  
b  
a  
r  
  
W  
a  
t  
i  
  
PS C:\Users\LENOVO\Desktop>
```

Bottom Screenshot:

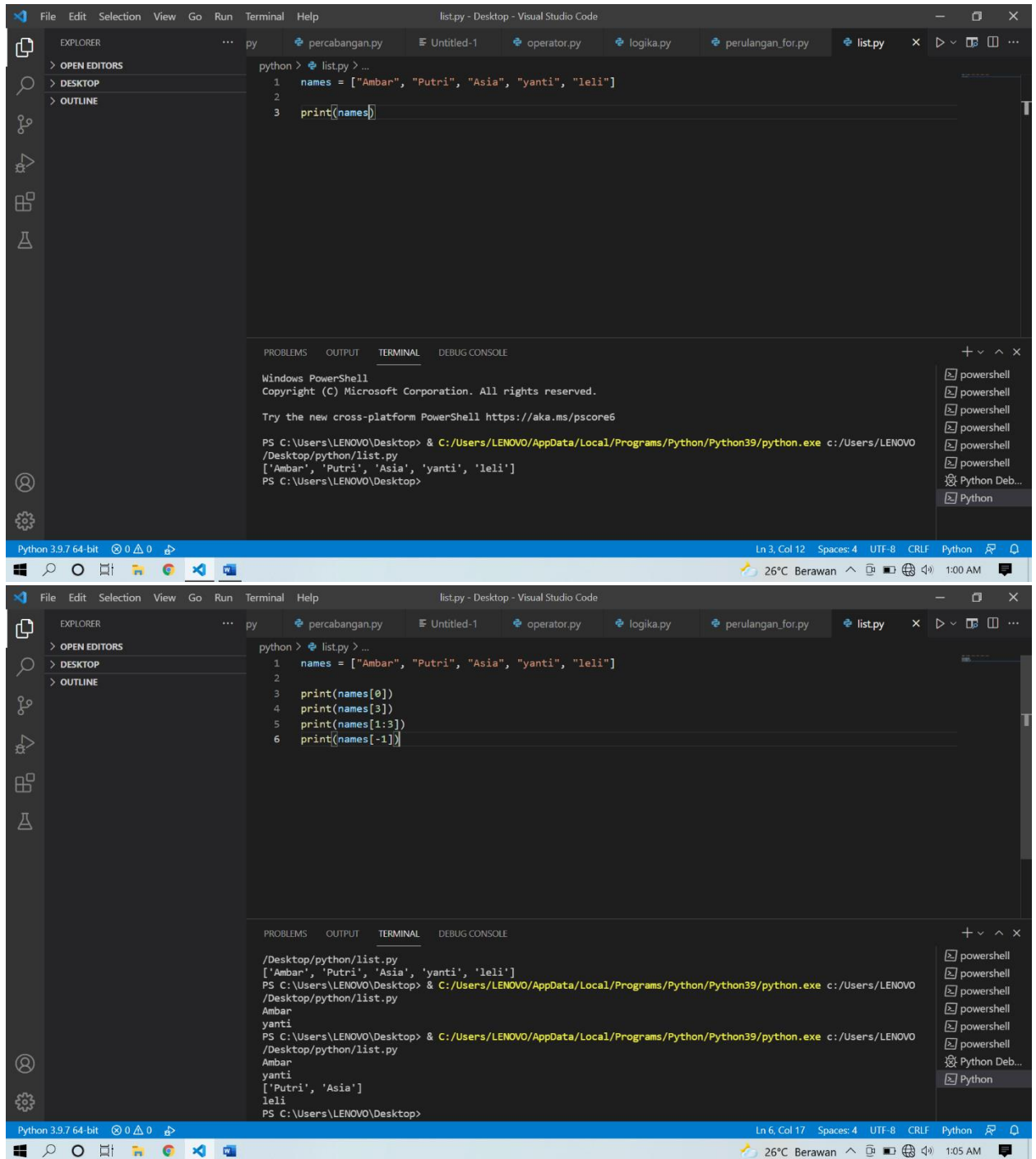
- File Explorer:** Shows the project structure with files: tugas3.py, percabangan.py, Untitled-1, operator.py, logika.py, and perulangan_for.py.
- Code Editor:** Displays the following Python code in `perulangan_for.py`:

```
python > perulangan_for.py > ...  
1 numbers = [6, 7, 8, 9, 10]  
2  
3 for item in numbers:  
4     print(item)  
5  
6 numbers = [6, 7, 8, 9, 10]  
7  
8 for item in numbers:  
9     print(item * 4)
```
- Terminal:** Shows the output of the code execution:

```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\p  
ython\debugpy\launcher' '63136' '--' 'c:\Users\LENOVO\Desktop\python\perulangan_for.py'  
6  
7  
8  
9  
10  
24  
28  
32  
36  
40  
  
PS C:\Users\LENOVO\Desktop>
```



2. List



The image displays two screenshots of a Visual Studio Code editor window, showing the execution of a Python script named `list.py`.

Top Screenshot:

- The Explorer panel on the left shows the file structure with `list.py` selected.
- The Editor panel displays the following Python code:

```
python > list.py > ...
1 names = ["Ambar", "Putri", "Asia", "yanti", "leli"]
2
3 print(names)
```
- The Terminal panel at the bottom shows the output of the script:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

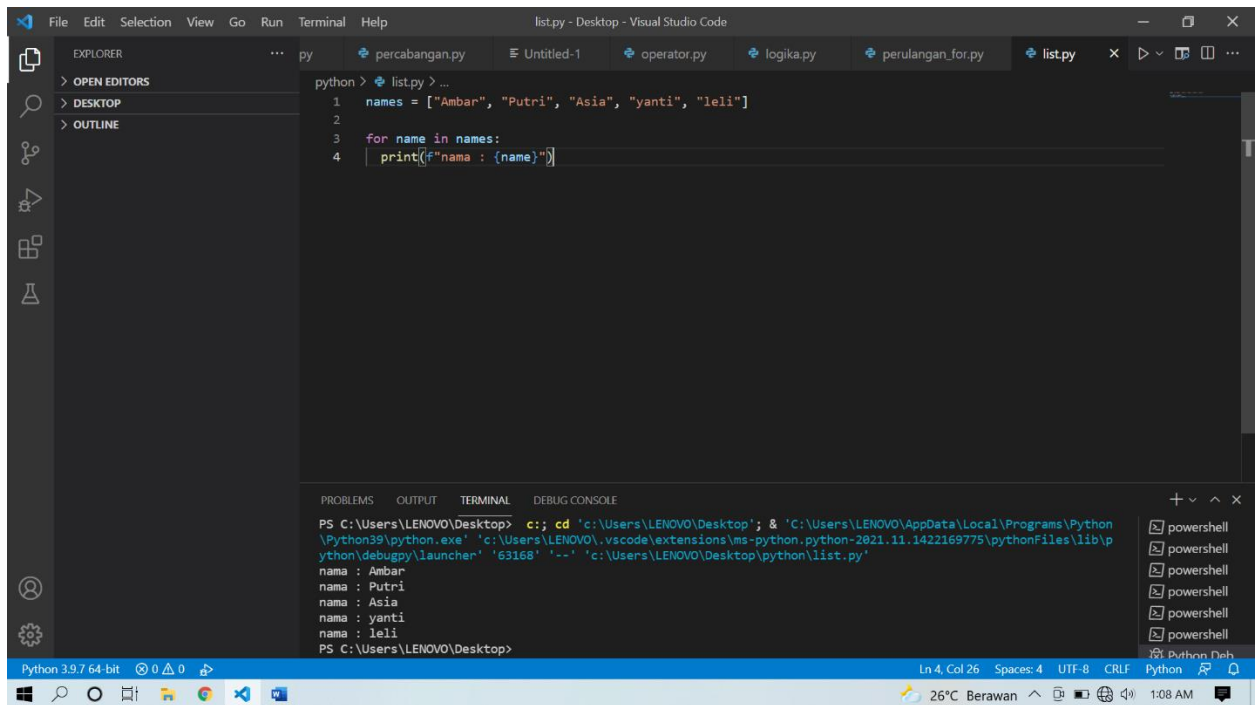
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/list.py
['Ambar', 'Putri', 'Asia', 'yanti', 'leli']
PS C:\Users\LENOVO\Desktop>
```

Bottom Screenshot:

- The Explorer panel on the left shows the file structure with `list.py` selected.
- The Editor panel displays the following Python code:

```
python > list.py > ...
1 names = ["Ambar", "Putri", "Asia", "yanti", "leli"]
2
3 print(names[0])
4 print(names[3])
5 print(names[1:3])
6 print(names[-1])
```
- The Terminal panel at the bottom shows the output of the script:

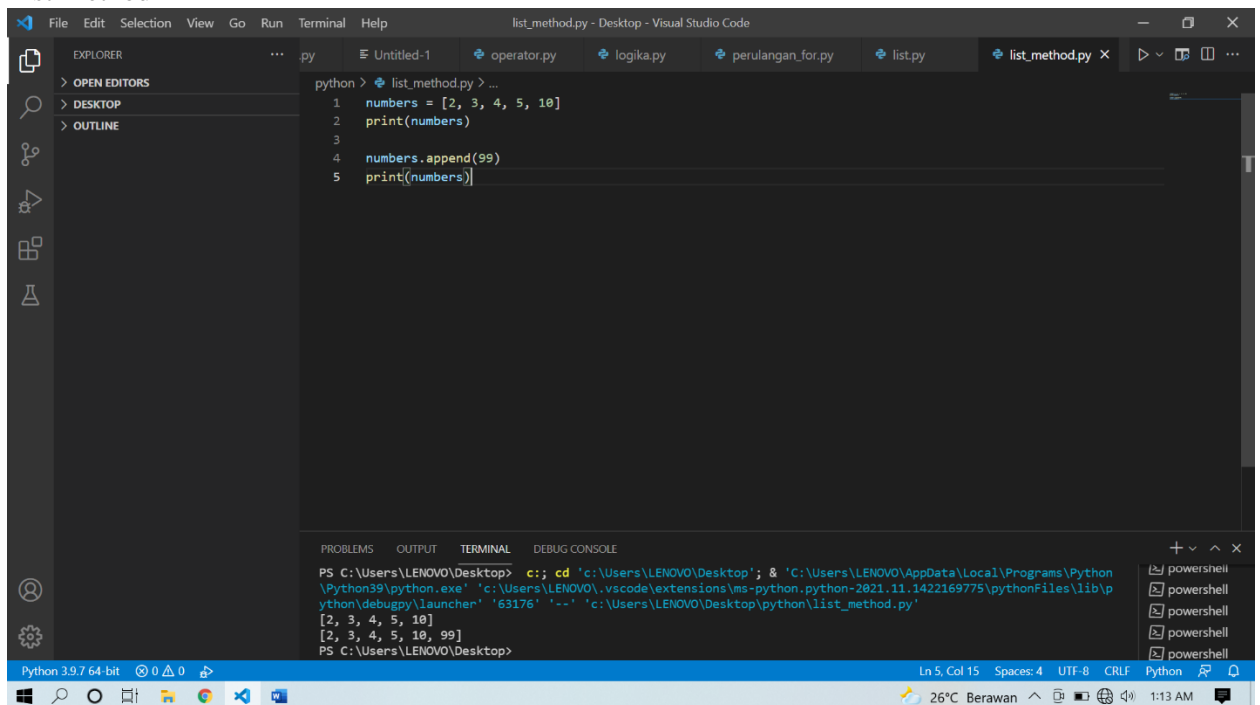
```
/Desktop/python/list.py
['Ambar', 'Putri', 'Asia', 'yanti', 'leli']
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/list.py
Ambar
yanti
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/list.py
Ambar
yanti
['Putri', 'Asia']
leli
PS C:\Users\LENOVO\Desktop>
```



```
python > list.py > ...
1 names = ["Ambar", "Putri", "Asia", "yanti", "leli"]
2
3 for name in names:
4     print(f"name : {name}")
```

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63168' '--' 'c:\Users\LENOVO\Desktop\python\list.py'
name : Ambar
name : Putri
name : Asia
name : yanti
name : leli
PS C:\Users\LENOVO\Desktop>
```

3. List Method



```
python > list_method.py > ...
1 numbers = [2, 3, 4, 5, 10]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
```

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63176' '--' 'c:\Users\LENOVO\Desktop\python\list_method.py'
[2, 3, 4, 5, 10]
[2, 3, 4, 5, 10, 99]
PS C:\Users\LENOVO\Desktop>
```

```
python > list_method.py > ...
1 numbers = [2, 3, 4, 5, 10]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
6
7 numbers.insert(2, 100)
8 print(numbers)
9
10 numbers.pop(4)
11 print(numbers)
12
13 numbers.remove(10)
14 print(numbers)
15
16 numbers.sort()
17 print(numbers)
```

Terminal Output:

```
[2, 3, 4, 5, 10, 99]
[2, 3, 100, 4, 5, 10, 99]
[2, 3, 100, 4, 10, 99]
[2, 3, 100, 4, 99]
[2, 3, 4, 99, 100]
```

4. Menjumlahkan List

```
python > menjumlahkanlist.py > ...
1 numbers = [2, 3, 4, 5, 6]
2
3 init_number = 0
4
5 for number in numbers:
6     init_number = init_number + number
7
8 print(init_number)
```

Terminal Output:

```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/menjumlahkanlist.py
20
PS C:\Users\LENOVO\Desktop>
```

5. Mencari Angka Max

The image displays two screenshots of the Visual Studio Code editor interface, showing the process of finding the maximum number in a list using Python.

Top Screenshot: The editor shows a file named `mencari_angkamax.py` with the following code:

```
python > mencari_angkamax.py > ...
1 numbers = [2, 3, 4, 5, 6]
2
3 max_number = max(numbers)
4 print(max_number)
```

The terminal output shows the command being executed and the result:

```
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/mencari_angkamax.py
6
PS C:\Users\LENOVO\Desktop>
```

Bottom Screenshot: The editor shows the same file `mencari_angkamax.py` with a different implementation:

```
python > mencari_angkamax.py > ...
1 numbers = [2, 3, 4, 5, 6]
2
3 numbers.sort()
4 max_number = numbers[-1]
5
6 print(max_number)
```

The terminal output shows the command being executed and the result:

```
\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\p
ython\debugpy\launcher' '63222' '--' 'c:\Users\LENOVO\Desktop\python\mencari_angkamax.py' 775\pythonFiles\li
6
PS C:\Users\LENOVO\Desktop>
```

```
python > mencari_angkamax.py > ...
1 numbers = [2, 3, 4, 5, 6]
2
3 max_number = numbers[0]
4
5 for number in numbers:
6     if number > max_number:
7         max_number = number
8
9 print(max_number)
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\p
ython\debugpy\launcher' '63226' '--' 'c:\Users\LENOVO\Desktop\python\mencari_angkamax.py'
6
PS C:\Users\LENOVO\Desktop>
```

Python 3.9.7 64-bit 0 0 0 Python 3.9.7 64-bit

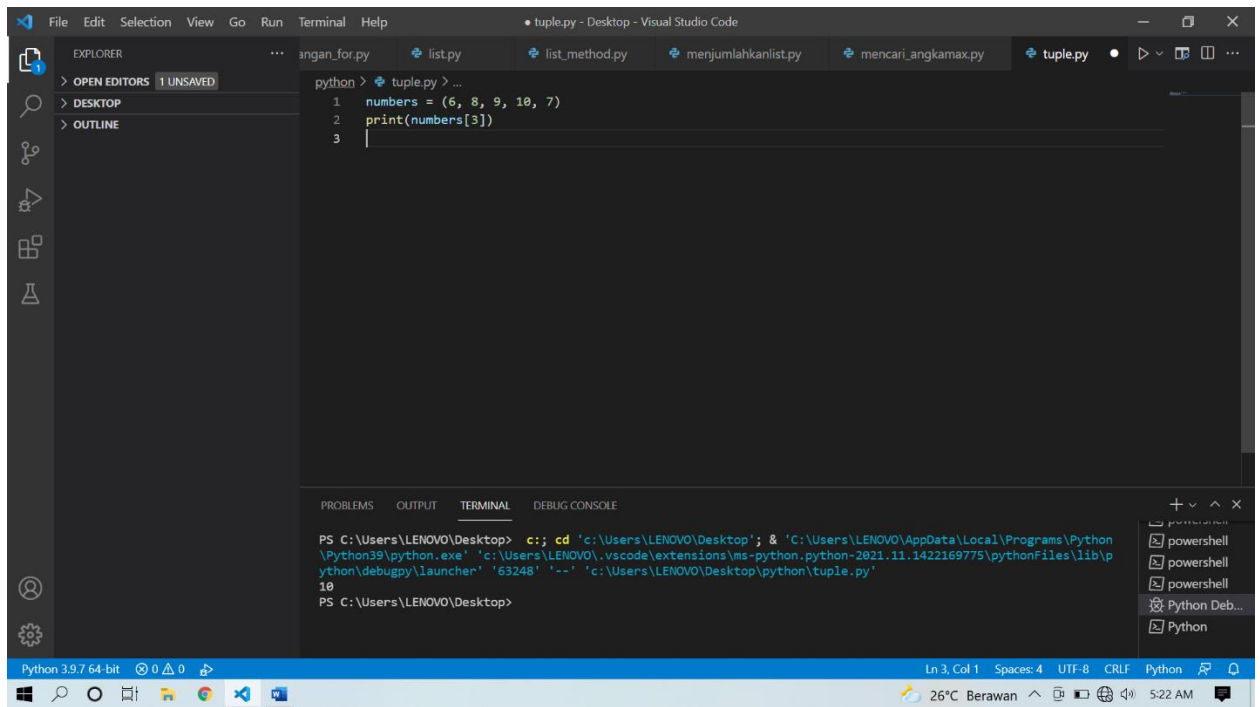
6. Tuple

```
python > tuple.py > ...
1 numbers = [6, 8, 9, 10, 7]
2 print(numbers)
3 numbers[0] = 5
4 print(numbers)
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
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-2021.11.1422169775\pythonFiles\lib\p
ython\debugpy\launcher' '63243' '--' 'c:\Users\LENOVO\Desktop\python\tuple.py'
[6, 8, 9, 10, 7]
[5, 8, 9, 10, 7]
PS C:\Users\LENOVO\Desktop>
```

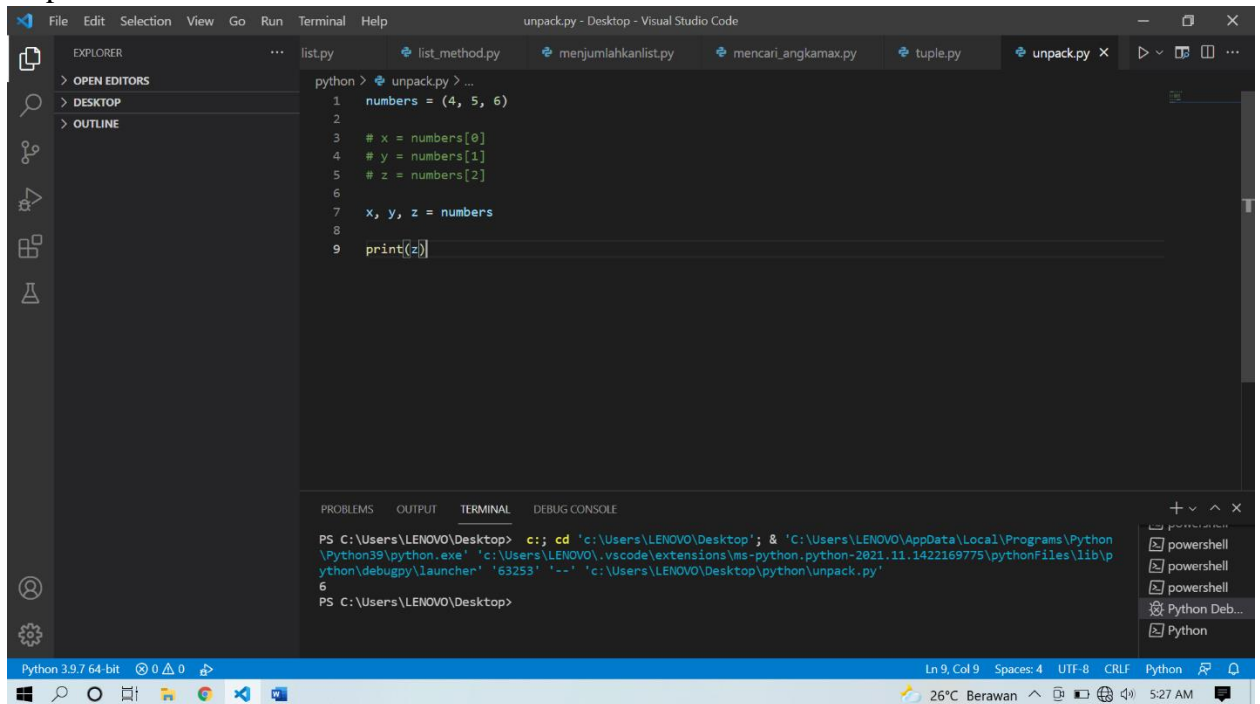
Python 3.9.7 64-bit 0 0 0 Python 3.9.7 64-bit



```
python > tuple.py > ...
1 numbers = (6, 8, 9, 10, 7)
2 print(numbers[3])
3
```

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63248' '--' 'c:\Users\LENOVO\Desktop\python\tuple.py'
10
PS C:\Users\LENOVO\Desktop>
```

7. Unpack



```
python > unpack.py > ...
1 numbers = (4, 5, 6)
2
3 # x = numbers[0]
4 # y = numbers[1]
5 # z = numbers[2]
6
7 x, y, z = numbers
8
9 print(z)
```

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63253' '--' 'c:\Users\LENOVO\Desktop\python\unpack.py'
6
PS C:\Users\LENOVO\Desktop>
```


The screenshot shows the Visual Studio Code interface with the file explorer on the left. The editor displays a Python script named 'unpack.py' with the following code:

```
python > unpack.py > ...
1 numbers = [4, 5, 6]
2
3 # x = numbers[0]
4 # y = numbers[1]
5 # z = numbers[2]
6
7 x, y, z = numbers
8
9 print(z)
```

The terminal at the bottom shows the command prompt output:

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63261' '--' 'c:\Users\LENOVO\Desktop\python\unpack.py'
6
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is at line 9, column 9, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 26°C and the time is 5:28 AM.

The screenshot shows the Visual Studio Code interface with the file explorer on the left. The editor displays a Python script named 'unpack.py' with the following code:

```
python > unpack.py > ...
1 numbers = [4, 5, 6]
2
3 # x = numbers[0]
4 # y = numbers[1]
5 # z = numbers[2]
6
7 x, *a = numbers
8
9 print("")
10 print(x)
11 print(a)
```

The terminal at the bottom shows the command prompt output:

```
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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63266' '--' 'c:\Users\LENOVO\Desktop\python\unpack.py'
4
[5, 6]
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is at line 11, column 9, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 26°C and the time is 5:33 AM.

8. Dictionary

The image displays two sequential screenshots of a Visual Studio Code editor window, illustrating a Python script named `dictionary.py`.

Top Screenshot: The editor shows the initial code. A dictionary `user` is defined with keys `"name"`, `"age"`, and `"is_admin"`. The value for `"name"` is `"Ambar Wati"`, and the value for `"age"` is `30`. The script then prints the value of `user["name"]`.

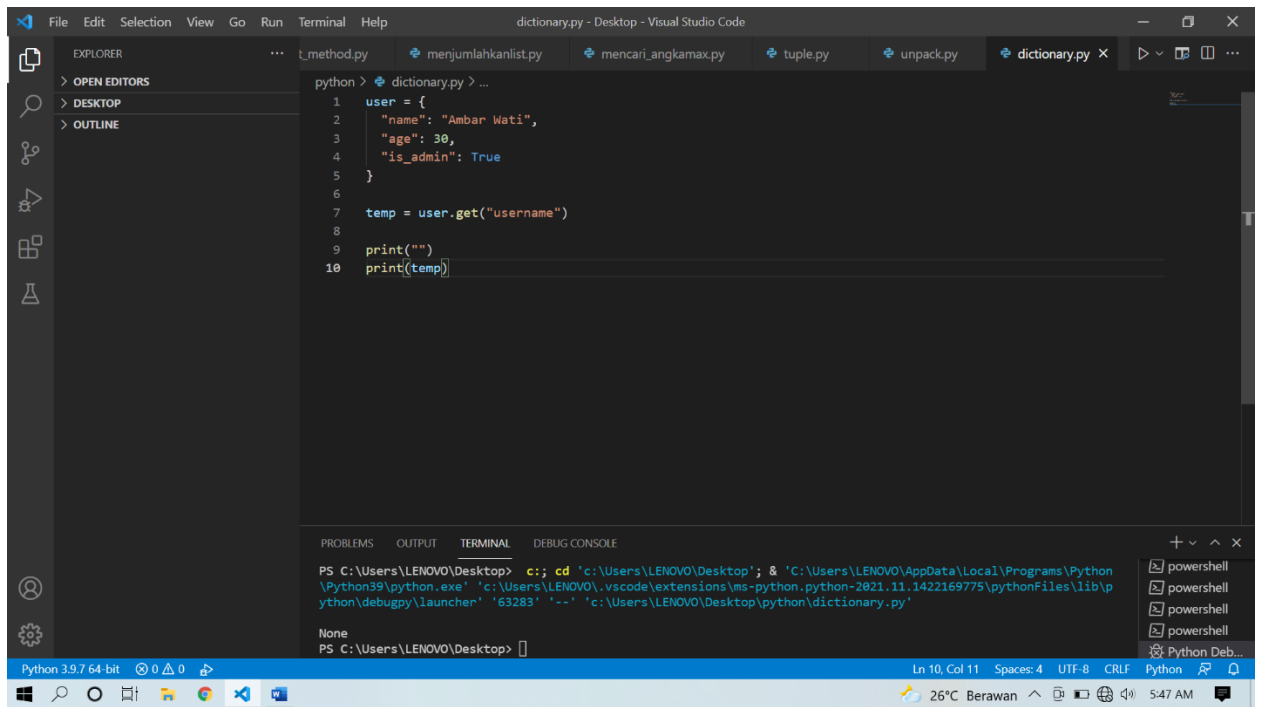
```
python > dictionary.py > ...
1 user = {
2     "name": "Ambar Wati",
3     "age": 30,
4     "is_admin": True
5 }
6
7 name = user["name"]
8
9 print("")
10 print(name)
```

The terminal output shows the command prompt running the script, and the output is `Ambar Wati`.

Bottom Screenshot: The editor shows the same code, but with a modification. The line `name = user["name"]` has been changed to `name = user["age"]`. The terminal output now shows `30`.

```
python > dictionary.py > ...
1 user = {
2     "name": "Ambar Wati",
3     "age": 30,
4     "is_admin": True
5 }
6
7 name = user["age"]
8
9 print("")
10 print(name)
```

The terminal output shows the command prompt running the script, and the output is `30`.



dictionary.py - Desktop - Visual Studio Code

python > dictionary.py > ...

```
1 user = {
2     "name": "Ambar Wati",
3     "age": 30,
4     "is_admin": True
5 }
6
7 temp = user.get("username")
8
9 print("")
10 print(temp)
```

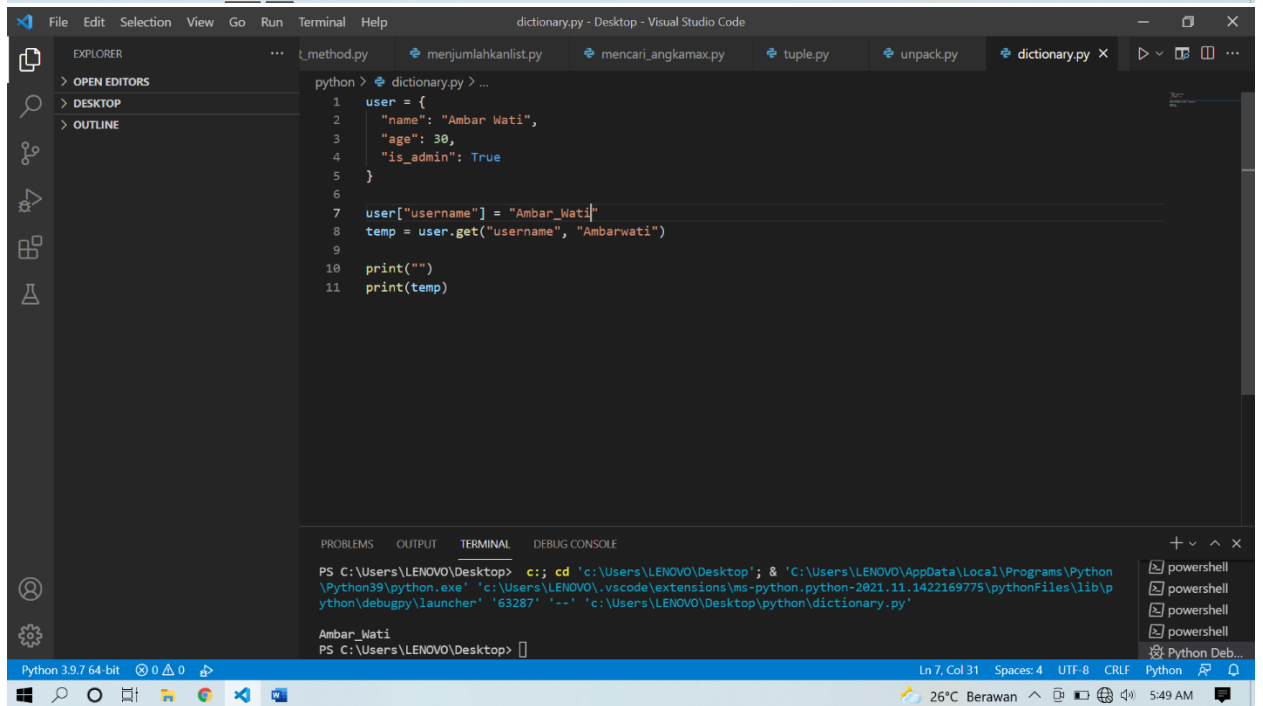
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63283' '--' 'c:\Users\LENOVO\Desktop\python\dictionary.py'

None

PS C:\Users\LENOVO\Desktop> []

Python 3.9.7 64-bit 0 0 0 Python 26°C Berawan 5:47 AM



dictionary.py - Desktop - Visual Studio Code

python > dictionary.py > ...

```
1 user = {
2     "name": "Ambar Wati",
3     "age": 30,
4     "is_admin": True
5 }
6
7 user["username"] = "Ambar_Wati"
8 temp = user.get("username", "Ambarwati")
9
10 print("")
11 print(temp)
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63287' '--' 'c:\Users\LENOVO\Desktop\python\dictionary.py'

Ambar_Wati

PS C:\Users\LENOVO\Desktop> []

Python 3.9.7 64-bit 0 0 0 Python 26°C Berawan 5:49 AM

