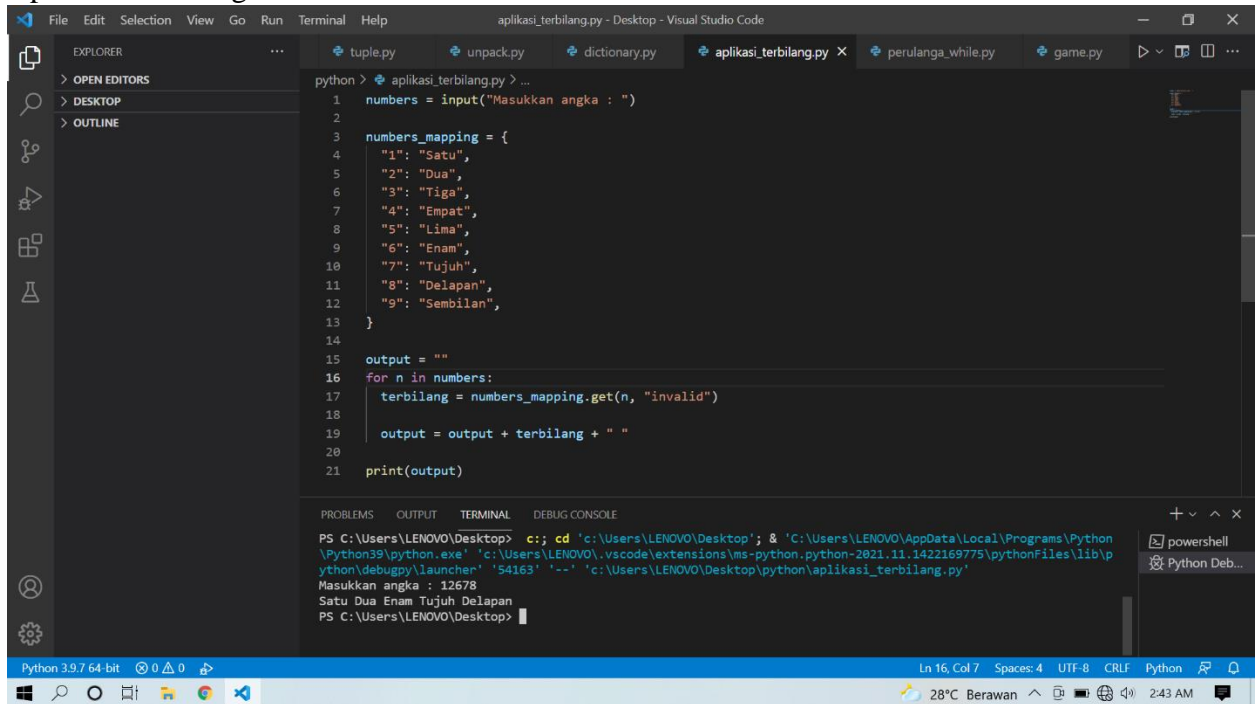


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Pyhton 5

1. Aplikasi Terbilang

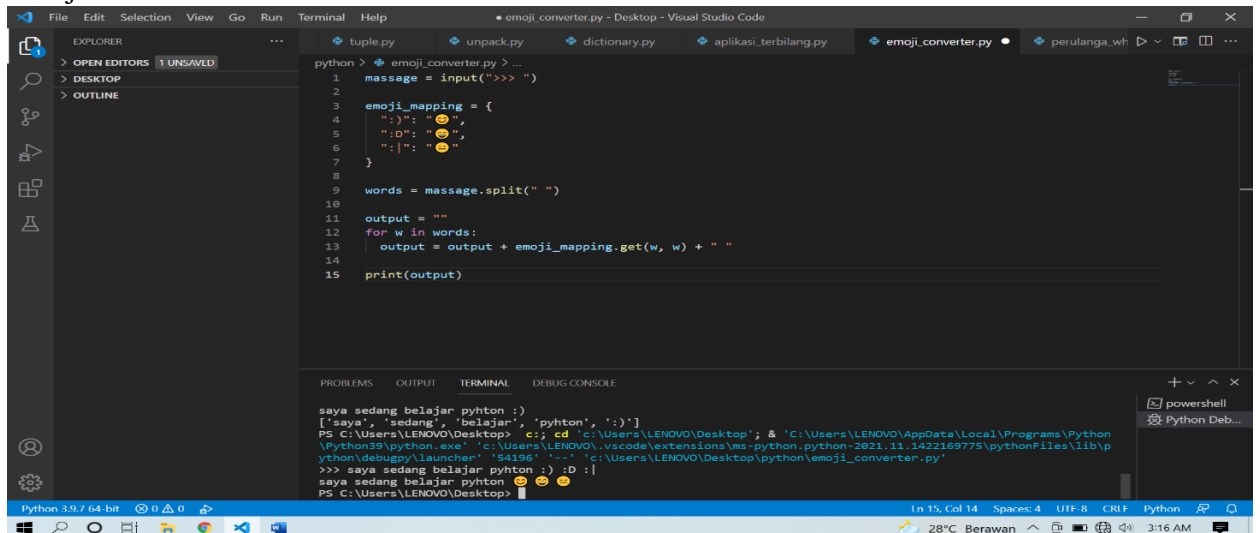


```
python > aplikasi_terbilang.py > ...
1 numbers = input("Masukkan angka : ")
2
3 numbers_mapping = {
4     "1": "Satu",
5     "2": "Dua",
6     "3": "Tiga",
7     "4": "Empat",
8     "5": "Lima",
9     "6": "Enam",
10    "7": "Tujuh",
11    "8": "Delapan",
12    "9": "Sembilan",
13 }
14
15 output = ""
16 for n in numbers:
17     terbilang = numbers_mapping.get(n, "invalid")
18
19     output = output + terbilang + " "
20
21 print(output)
```

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' '54163' '--' 'c:\Users\LENOVO\Desktop\python\aplikasi_terbilang.py'
Masukkan angka : 12678
Satu Dua Enam Tujuh Delapan
PS C:\Users\LENOVO\Desktop>
```

2. Emoji Converter



```
python > emoji_converter.py > ...
1 message = input(">>> ")
2
3 emoji_mapping = {
4     "saya": "👤",
5     "sedang": "🗣️",
6     "belajar": "📖",
7     "python": "🐍"
8 }
9
10 words = message.split(" ")
11
12 output = ""
13 for w in words:
14     output = output + emoji_mapping.get(w, w) + " "
15
16 print(output)
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
saya sedang belajar python :)
['saya', 'sedang', 'belajar', 'python', ':)']
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' '54196' '--' 'c:\Users\LENOVO\Desktop\python\emoji_converter.py'
>>> saya sedang belajar python :) :D :|
saya sedang belajar python 🤖 🗣️ 📖 🐍
PS C:\Users\LENOVO\Desktop>
```

3. Fungsi

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

Top Screenshot:

- The Explorer panel on the left shows the file structure with folders for OPEN EDITORS, DESKTOP, and OUTLINE.
- The Editor panel shows the file `fungsi.py` with the following code:

```
python > fungsi.py > ...
1 def halo_user():
2     print("halo user")
3     print("selamat belajar pyhton")
4
5 print("start")
6 halo_user()
7 print("finish")
```
- The Terminal panel 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' '54201' '--' 'c:\Users\LENOVO\Desktop\python\fungsi.py'
start
halo user
selamat belajar pyhton
finish
PS C:\Users\LENOVO\Desktop>
```

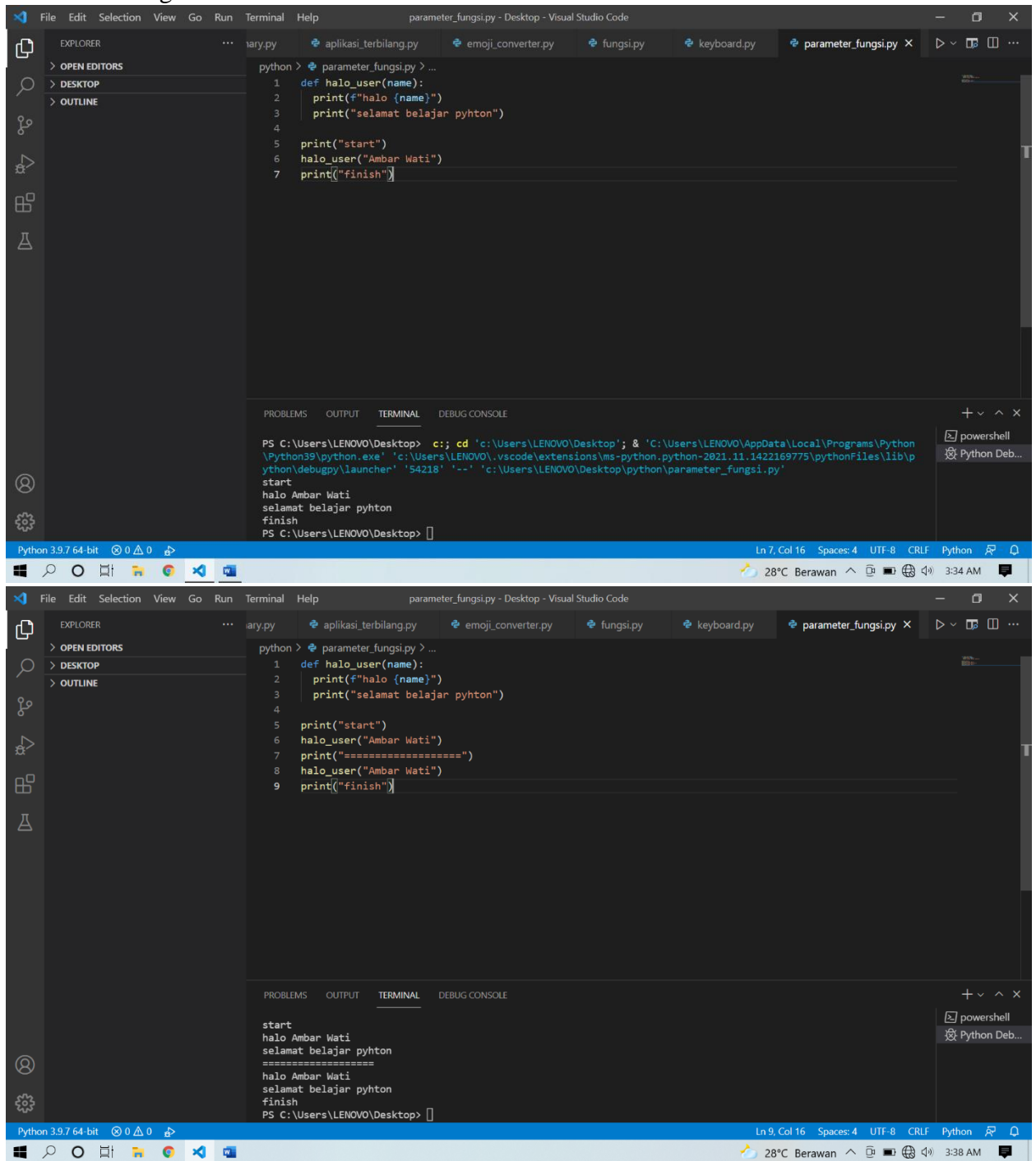
Bottom Screenshot:

- The Explorer panel on the left shows the file structure with folders for OPEN EDITORS, DESKTOP, and OUTLINE.
- The Editor panel shows the file `fungsi.py` with the following code:

```
python > fungsi.py > ...
1 def halo_user():
2     print("halo user")
3     print("selamat belajar pyhton")
4
5 halo_user()
6 print("start")
7 print("finish")
```
- The Terminal panel 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' '54210' '--' 'c:\Users\LENOVO\Desktop\python\fungsi.py'
halo user
selamat belajar pyhton
start
finish
PS C:\Users\LENOVO\Desktop>
```

4. Parameter Fungsi



The image displays two screenshots of a Visual Studio Code editor window, showing a Python script and its execution in a terminal.

Top Screenshot:

- The editor shows a file named `parameter_fungsi.py` with the following code:

```
python > parameter_fungsi.py > ...
1 def halo_user(name):
2     print(f"halo {name}")
3     print("selamat belajar pyhton")
4
5 print("start")
6 halo_user("Ambar Wati")
7 print("finish")
```
- The terminal output shows the execution of the script:

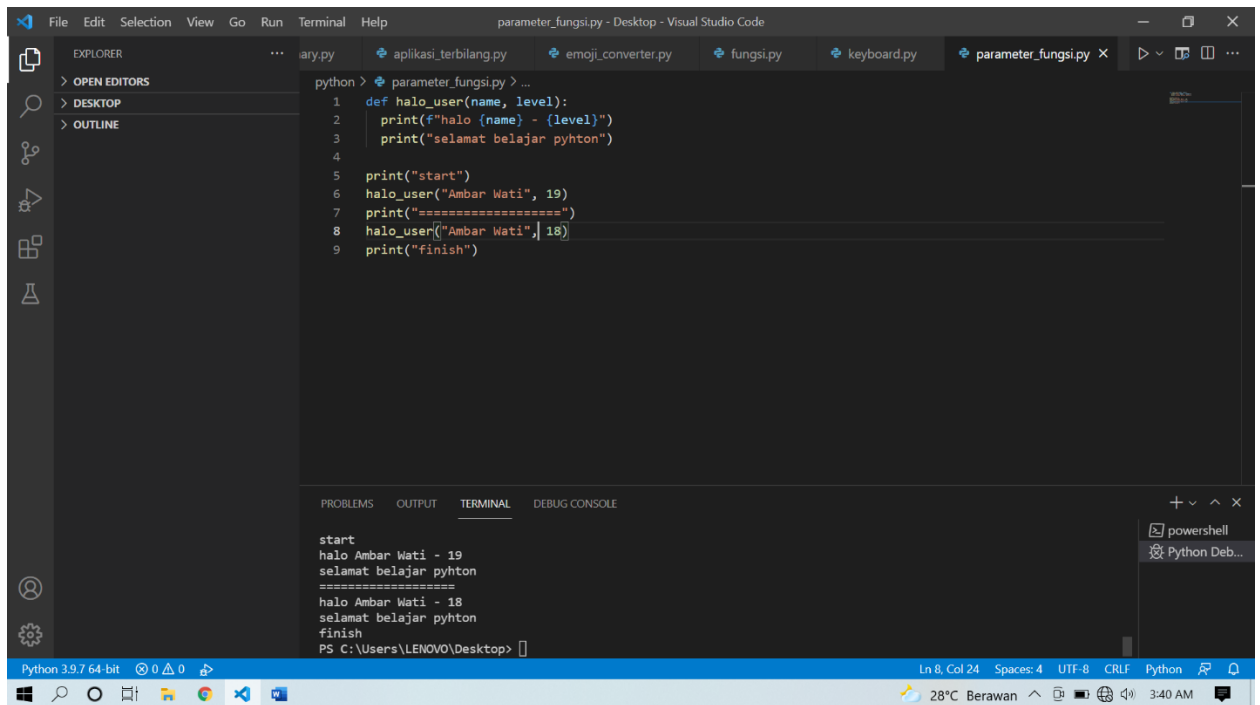
```
PS C:\Users\LENOVO\Desktop> c:\cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '54218' '--' 'c:\Users\LENOVO\Desktop\python\parameter_fungsi.py'
start
halo Ambar Wati
selamat belajar pyhton
finish
PS C:\Users\LENOVO\Desktop>
```

Bottom Screenshot:

- The editor shows the same file `parameter_fungsi.py` with the following code:

```
python > parameter_fungsi.py > ...
1 def halo_user(name):
2     print(f"halo {name}")
3     print("selamat belajar pyhton")
4
5 print("start")
6 halo_user("Ambar Wati")
7 print("=====")
8 halo_user("Ambar Wati")
9 print("finish")
```
- The terminal output shows the execution of the script:

```
start
halo Ambar Wati
selamat belajar pyhton
=====
halo Ambar Wati
selamat belajar pyhton
finish
PS C:\Users\LENOVO\Desktop>
```



```
File Edit Selection View Go Run Terminal Help
parameter_fungsi.py - Desktop - Visual Studio Code

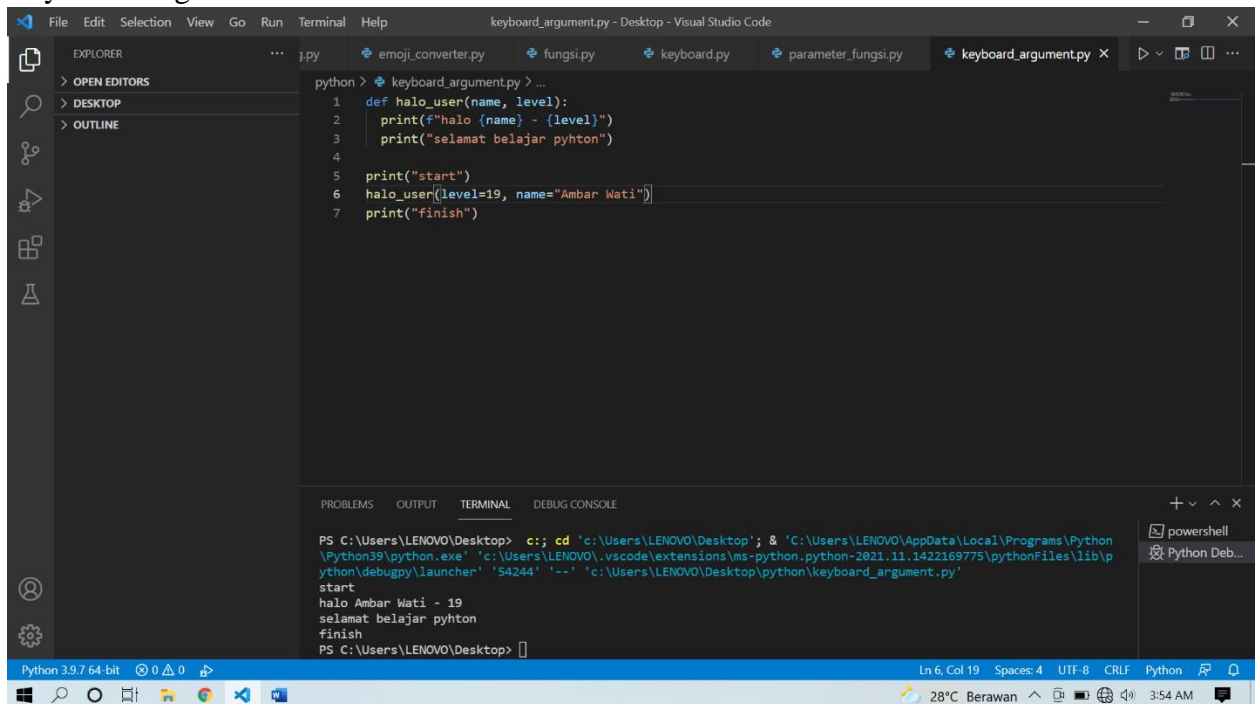
EXPLORER
> OPEN EDITORS
> DESKTOP
> OUTLINE

python > parameter_fungsi.py > ...
1 def halo_user(name, level):
2     print(f"halo {name} - {level}")
3     print("selamat belajar pyhton")
4
5 print("start")
6 halo_user("Ambar Wati", 19)
7 print("=====")
8 halo_user(["Ambar Wati", 18])
9 print("finish")

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
start
halo Ambar Wati - 19
selamat belajar pyhton
=====
halo Ambar Wati - 18
selamat belajar pyhton
finish
PS C:\Users\LENOVO\Desktop>

Python 3.9.7 64-bit 0 0 0
Ln 8, Col 24 Spaces: 4 UTF-8 CRLF Python 3:40 AM
```

5. Keyboard Argument



```
File Edit Selection View Go Run Terminal Help
keyboard_argument.py - Desktop - Visual Studio Code

EXPLORER
> OPEN EDITORS
> DESKTOP
> OUTLINE

python > keyboard_argument.py > ...
1 def halo_user(name, level):
2     print(f"halo {name} - {level}")
3     print("selamat belajar pyhton")
4
5 print("start")
6 halo_user(level=19, name="Ambar Wati")
7 print("finish")

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' '54244' '--' 'c:\Users\LENOVO\Desktop\python\keyboard_argument.py'
start
halo Ambar Wati - 19
selamat belajar pyhton
finish
PS C:\Users\LENOVO\Desktop>

Python 3.9.7 64-bit 0 0 0
Ln 6, Col 19 Spaces: 4 UTF-8 CRLF Python 3:54 AM
```

6. Return Value

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

Top Screenshot:

The editor shows a file named `return_value.py` with the following code:

```
python > return_value.py > ...
1 def halo_user(name, level):
2     print(f"halo {name} - {level}")
3     print("selamat belajar pyhton")
4
5     print("start")
6     halo_user("Ambar Wati", 19)
7     print("finish")
8
9
10 length = len([1, 2, 3])
11 print(length)
```

The terminal output shows the execution of the script:

```
\Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\p
ython\debugpy\launcher' '54257' '--' 'c:\Users\LENOVO\Desktop\python\return_value.py'
start
halo Ambar Wati - 19
selamat belajar pyhton
finish
3
PS C:\Users\LENOVO\Desktop> []
```

Bottom Screenshot:

The editor shows the same file `return_value.py` with the following code:

```
python > return_value.py > ...
1 def halo_user(name, level):
2     print(f"halo {name} - {level}")
3     print("selamat belajar pyhton")
4
5     temp = halo_user("Ambar", 19)
6     print(temp)
```

The terminal output shows a `TypeError` being raised:

```
TypeError: halo_user() missing 1 required positional argument: 'level'
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' '54266' '--' 'c:\Users\LENOVO\Desktop\python\return_value.py'
halo Ambar - 19
selamat belajar pyhton
None
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 `return_valuae.py`. The code defines a function `halo_user(name, level)` that prints a greeting and returns the value 100. Below the function definition, the function is called with `halo_user("Ambar", 19)` and the result is printed. The terminal at the bottom shows the command `python return_valuae.py` being executed, resulting in the output: `halo Ambar - 19`, `selamat belajar pyhton`, and `100`.

```
python > return_valuae.py > halo_user
1 def halo_user(name, level):
2     print(f"halo {name} - {level}")
3     print("selamat belajar pyhton")
4     return 100
5 temp = halo_user("Ambar", 19)
6 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' '54278' '--' 'c:\Users\LENOVO\Desktop\python\return_valuae.py'
halo Ambar - 19
selamat belajar pyhton
100
PS C:\Users\LENOVO\Desktop>
```

Python 3.9.7 64-bit 0 0 0 28°C Berawan 4:17 AM

The screenshot shows the Visual Studio Code interface with the file explorer on the left. The editor displays a Python script named `return_valuae.py`. The code defines a function `multiply(a, b)` that returns the product of `a` and `b`. Below the function definition, the function is called with `multiply(2, 10)` and the result is printed. The terminal at the bottom shows the command `python return_valuae.py` being executed, resulting in the output: `20`.

```
python > return_valuae.py > ...
1 def multiply(a, b):
2     result = a * b
3     return result
4
5 #input
6 #proses
7 #output
8 result = multiply(2, 10)
9 print(result) #hasil yang diinginkan = 2 * 10 = 20
```

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' '54283' '--' 'c:\Users\LENOVO\Desktop\python\return_valuae.py'
20
PS C:\Users\LENOVO\Desktop>
```

Python 3.9.7 64-bit 0 0 0 28°C Berawan 4:23 AM