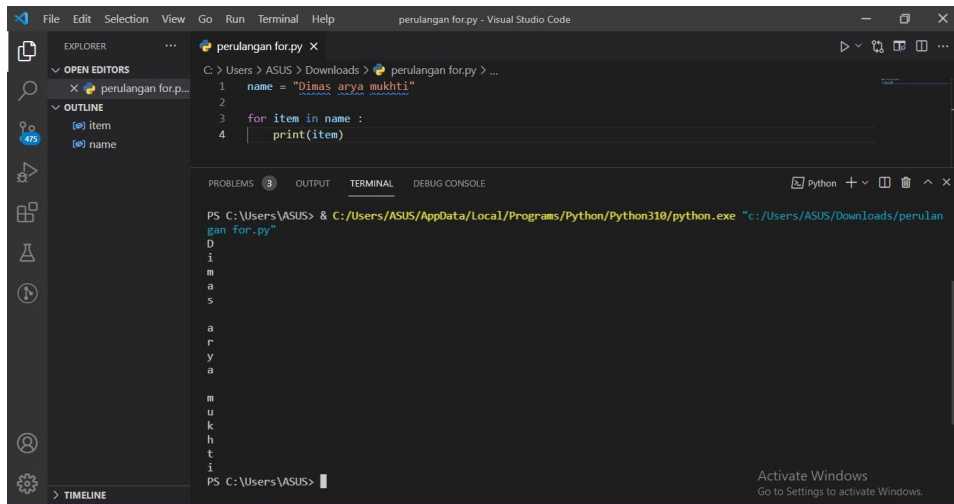


TUGAS 4

1. Perulangan for



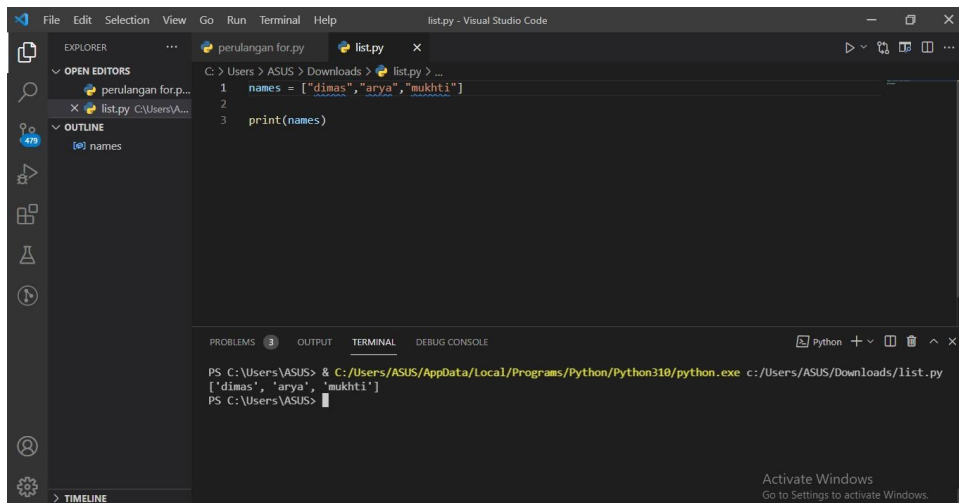
The screenshot shows the Visual Studio Code interface with a file named `perulangan for.py` open. The code in the editor is:

```
1 name = "Dimas arya mukhti"
2
3 for item in name :
4     print(item)
```

The terminal at the bottom shows the command to run the script and its output:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/perulangan for.py"
D
i
m
a
r
y
a
m
u
k
h
t
i
PS C:\Users\ASUS>
```

2. List



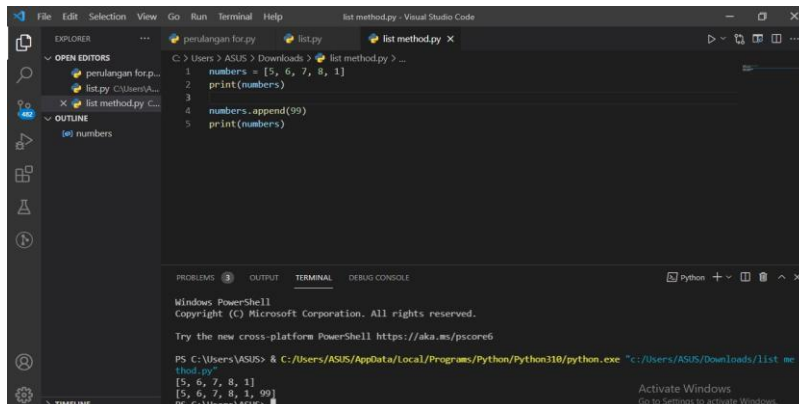
The screenshot shows the Visual Studio Code interface with two files open: `perulangan for.py` and `list.py`. The code in `list.py` is:

```
1 names = ["dimas", "arya", "mukhti"]
2
3 print(names)
```

The terminal at the bottom shows the command to run the script and its output:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Downloads/list.py
['dimas', 'arya', 'mukhti']
PS C:\Users\ASUS>
```

3. List method append



The screenshot shows the Visual Studio Code interface with three files open: `perulangan for.py`, `list.py`, and `list method.py`. The code in `list method.py` is:

```
1 numbers = [5, 6, 7, 8, 1]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
```

The terminal at the bottom shows the command to run the script and its output:

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

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

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/list method.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
PS C:\Users\ASUS>
```

- List method insert

```
File Edit Selection View Go Run Terminal Help list method.py - Visual Studio Code
EXPLORER
  OPEN EDITORS
    perulangan for.p...
    list.py C:\Users\A...
    list method.py C...
  OUTLINE
    numbers
  TIMELINE

C:\Users\ASUS> Downloads > list method.py > ...
1 numbers = [5, 6, 7, 8, 1]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
6
7 numbers.insert(2, 100)
8 print(numbers)

PROBLEMS 0 OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/list me
thod.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/list me
thod.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 1, 99]
PS C:\Users\ASUS>
```

- List method indeks pop

```
File Edit Selection View Go Run Terminal Help list method.py - Visual Studio Code
EXPLORER
  OPEN EDITORS
    perulangan for.p...
    list.py C:\Users\A...
    list method.py C...
  OUTLINE
    numbers
  TIMELINE

C:\Users\ASUS> Downloads > list method.py > ...
1 numbers = [5, 6, 7, 8, 1]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
6
7 numbers.insert(2, 100)
8 print(numbers)
9
10 numbers.pop(5)
11 print(numbers)

PROBLEMS 0 OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/list me
thod.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 99]
PS C:\Users\ASUS>
```

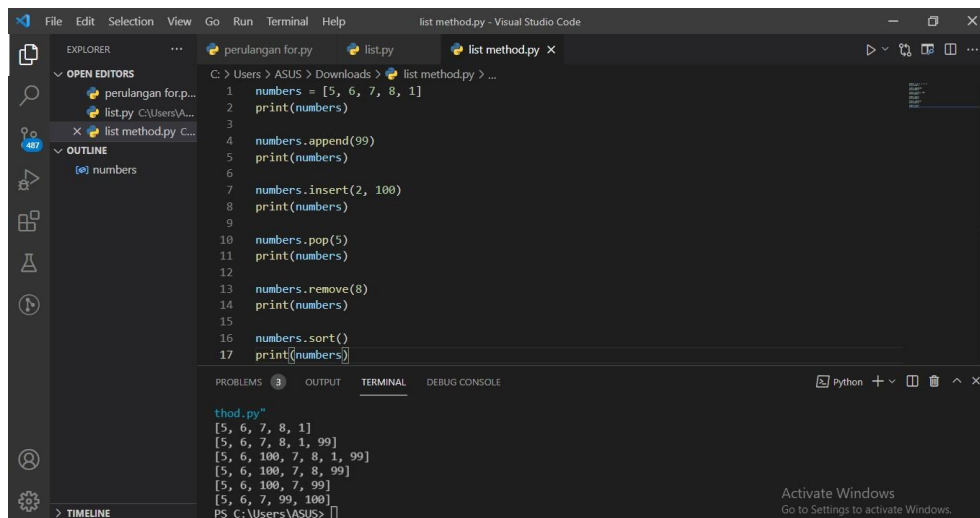
- List method menghapus indeks

```
File Edit Selection View Go Run Terminal Help list method.py - Visual Studio Code
EXPLORER
  OPEN EDITORS
    perulangan for.p...
    list.py C:\Users\A...
    list method.py C...
  OUTLINE
    numbers
  TIMELINE

C:\Users\ASUS> Downloads > list method.py > ...
1 numbers = [5, 6, 7, 8, 1]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
6
7 numbers.insert(2, 100)
8 print(numbers)
9
10 numbers.pop(5)
11 print(numbers)
12
13 numbers.remove(8)
14 print(numbers)

PROBLEMS 0 OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/list me
thod.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 1, 99]
[5, 6, 100, 7, 99]
PS C:\Users\ASUS>
```

- List method sort



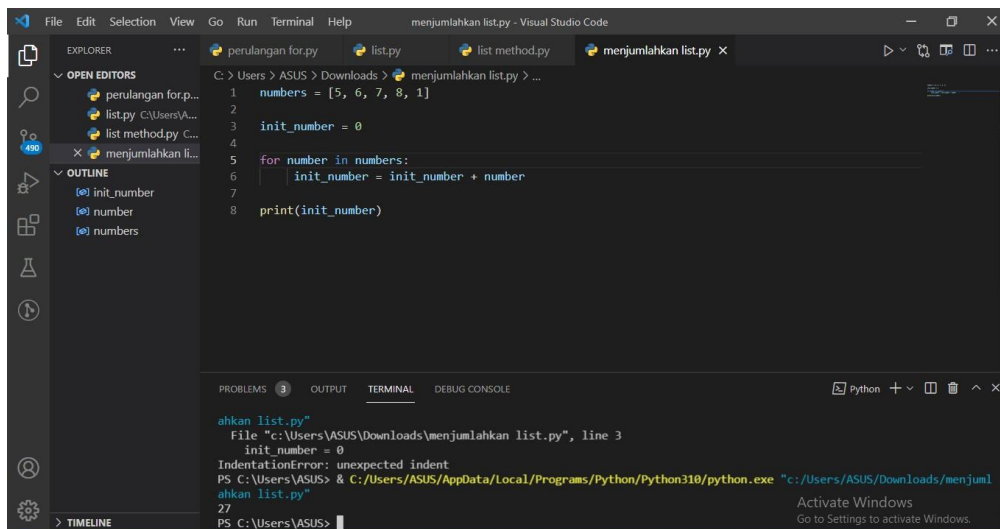
The screenshot shows a Visual Studio Code window with a Python file named 'list method.py'. The code performs several list operations: initialization, printing, appending, inserting, popping, removing, and sorting. The terminal output shows the state of the list after each operation.

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

Terminal Output:

```
thod.py"
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 99]
[5, 6, 100, 7, 99]
[5, 6, 7, 99, 100]
```

4. Menjumlahkan list



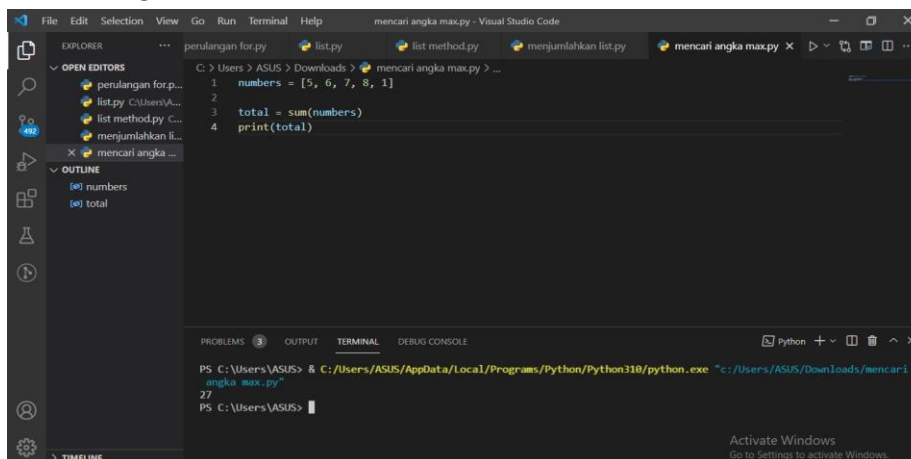
The screenshot shows a Visual Studio Code window with a Python file named 'menjumlahkan list.py'. The code attempts to calculate the sum of a list using a loop. The terminal shows an 'IndentationError: unexpected indent'.

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

Terminal Output:

```
ahkan list.py"
File "c:/Users/ASUS/Downloads/menjumlahkan list.py", line 3
init_number = 0
IndentationError: unexpected indent
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/menjuml
ahkan list.py"
27
PS C:\Users\ASUS>
```

5. Mencari angka max

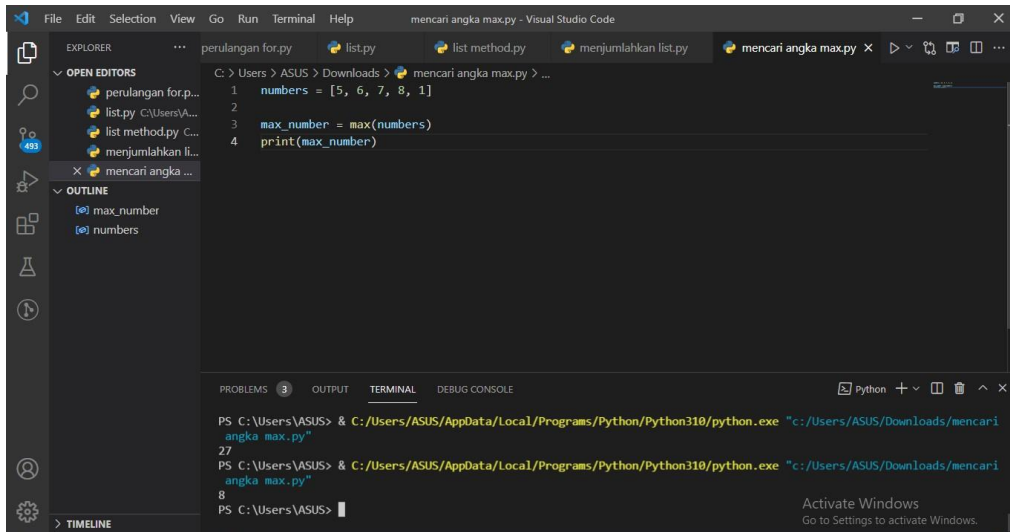


The screenshot shows a Visual Studio Code window with a Python file named 'mencari angka max.py'. The code calculates the sum of a list and prints it. The terminal shows the output of the program.

```
1 numbers = [5, 6, 7, 8, 1]
2
3 total = sum(numbers)
4 print(total)
```

Terminal Output:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/mencari
angka max.py"
27
PS C:\Users\ASUS>
```



```
File Edit Selection View Go Run Terminal Help mencari angka max.py - Visual Studio Code
```

EXPLORER

- perulangan for.py
- list.py
- list method.py
- menjumlahkan list.py
- mencari angka max.py

OUTLINE

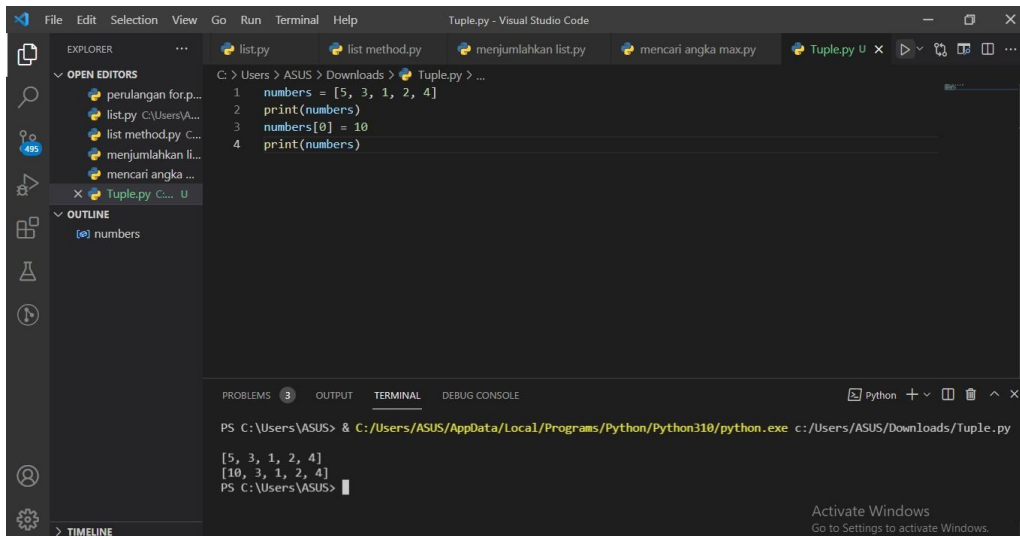
- max_number
- numbers

```
C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Downloads/mencari angka max.py"
1 numbers = [5, 6, 7, 8, 1]
2
3 max_number = max(numbers)
4 print(max_number)
27
PS C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Downloads/mencari angka max.py"
8
PS C:\Users\ASUS>
```

Activate Windows
Go to Settings to activate Windows.

6. Tuple

Tuple adalah data-data yang tidak bisa diubah



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

EXPLORER

- perulangan for.py
- list.py
- list method.py
- menjumlahkan list.py
- mencari angka max.py
- Tuple.py

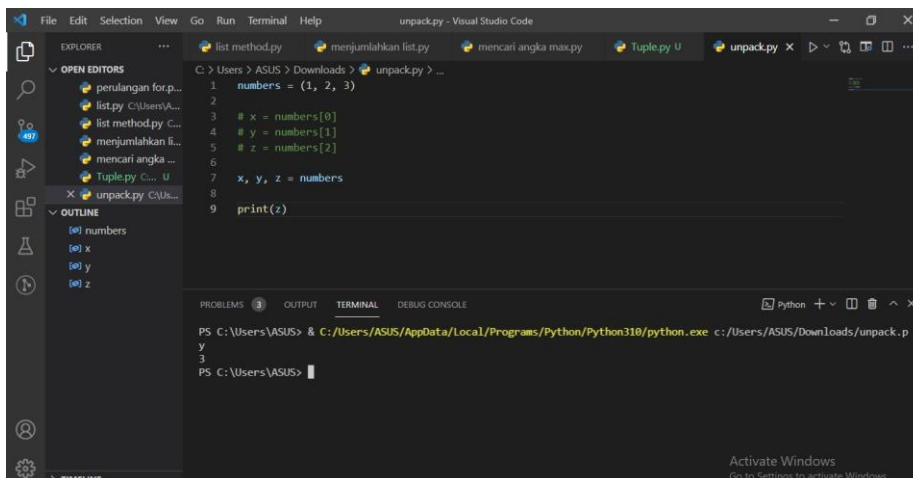
OUTLINE

- numbers

```
C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Downloads/Tuple.py"
1 numbers = [5, 3, 1, 2, 4]
2 print(numbers)
3 numbers[0] = 10
4 print(numbers)
[5, 3, 1, 2, 4]
[10, 3, 1, 2, 4]
PS C:\Users\ASUS>
```

Activate Windows
Go to Settings to activate Windows.

7. Unpack



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

EXPLORER

- perulangan for.py
- list.py
- list method.py
- menjumlahkan list.py
- mencari angka max.py
- Tuple.py
- unpack.py

OUTLINE

- numbers
- x
- y
- z

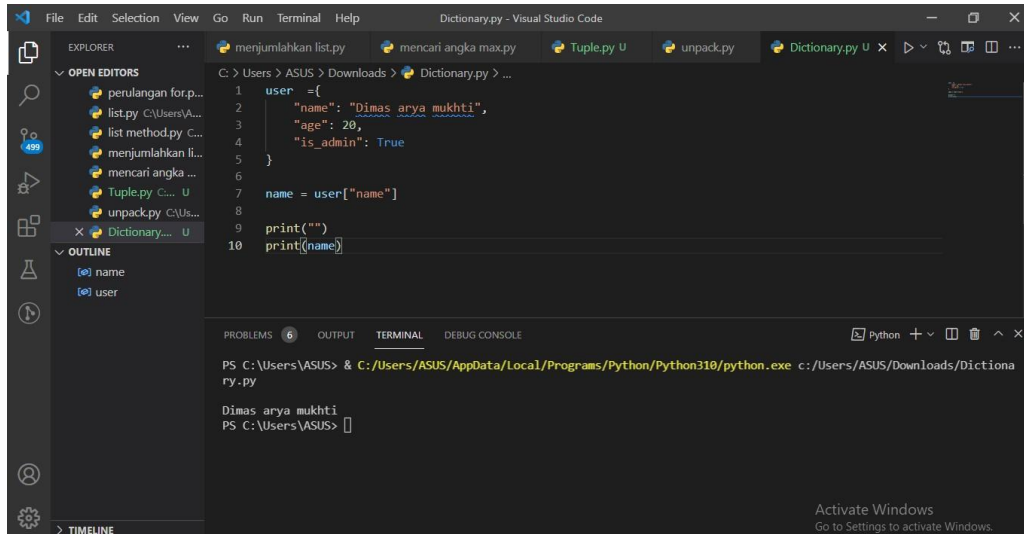
```
C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Downloads/unpack.py"
1 numbers = (1, 2, 3)
2
3 # x = numbers[0]
4 # y = numbers[1]
5 # z = numbers[2]
6
7 x, y, z = numbers
8
9 print(z)
3
PS C:\Users\ASUS>
```

Activate Windows
Go to Settings to activate Windows.

8. Dictionary

Yaitu sebuah struktur data yang dapat menyimpan data dalam bentuk Q atau kunci dan felyou

Dictionary variable name/nama



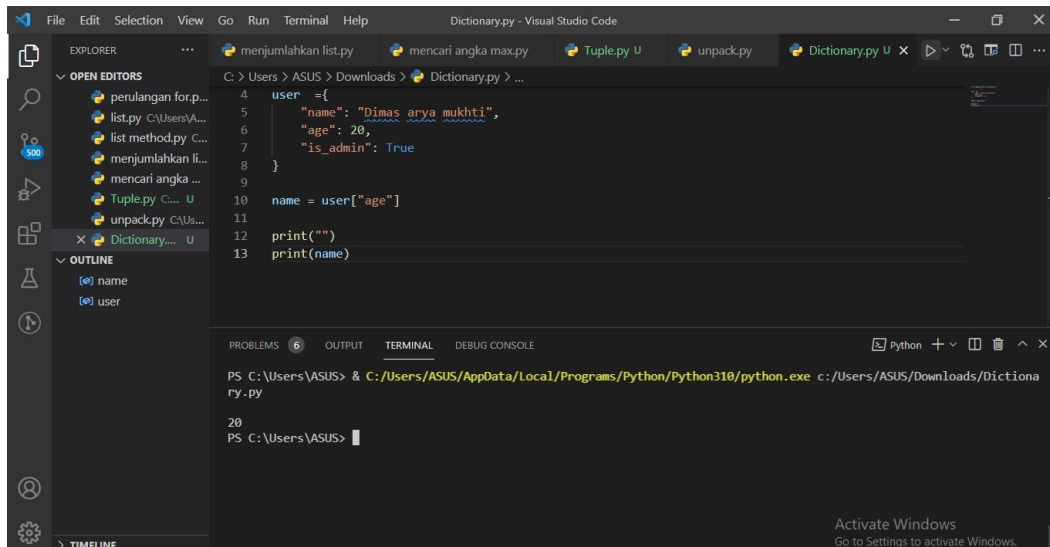
```
1 user = {
2     "name": "Dimas arya mukhti",
3     "age": 20,
4     "is_admin": True
5 }
6
7 name = user["name"]
8
9 print("")
10 print(name)
```

PROBLEMS 6 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Downloads/Dictiona
ry.py

Dimas arya mukhti
PS C:\Users\ASUS>

Dictionary variable age/umur



```
4 user = {
5     "name": "Dimas arya mukhti",
6     "age": 20,
7     "is_admin": True
8 }
9
10 name = user["age"]
11
12 print("")
13 print(name)
```

PROBLEMS 6 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Downloads/Dictiona
ry.py

20
PS C:\Users\ASUS>