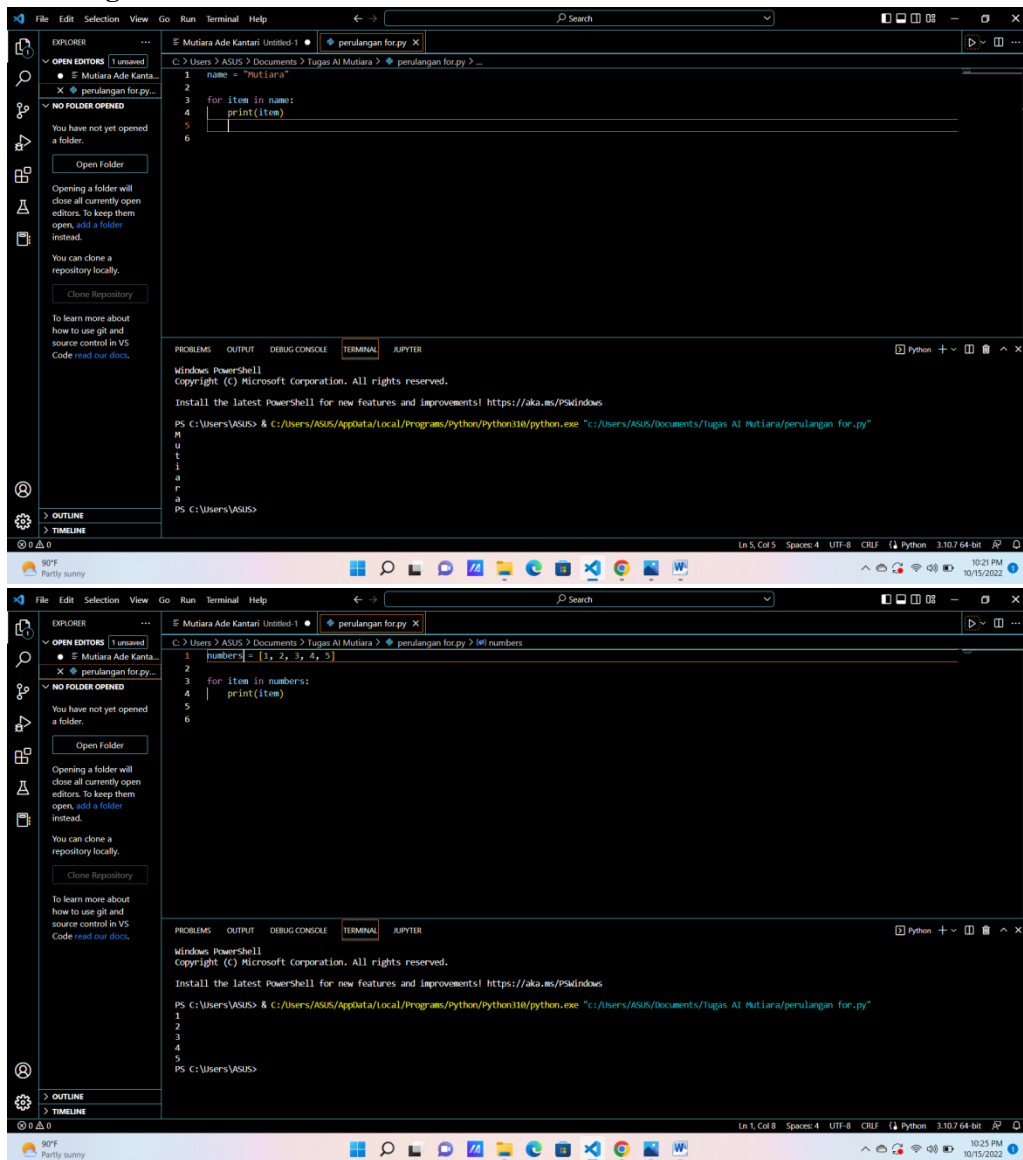


MINGGU II PY4

NAMA : MUTIARA ADE KANTARI

NIM : 211001065

1. Perulangan For



```
1 name = "Mutiara"
2
3 for item in name:
4     print(item)
5
6
```

```
1 numbers = [1, 2, 3, 4, 5]
2
3 for item in numbers:
4     print(item)
5
6
```

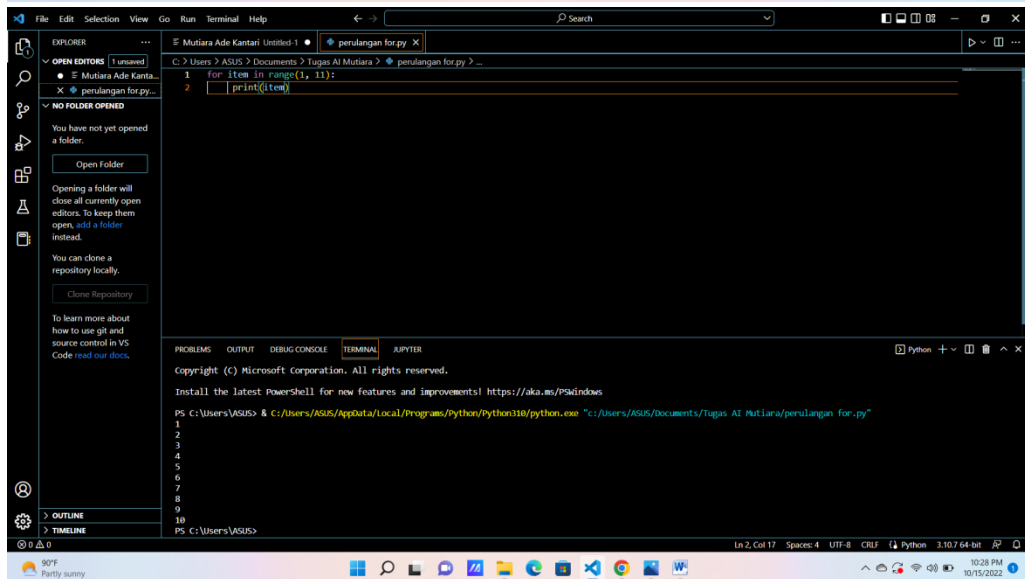
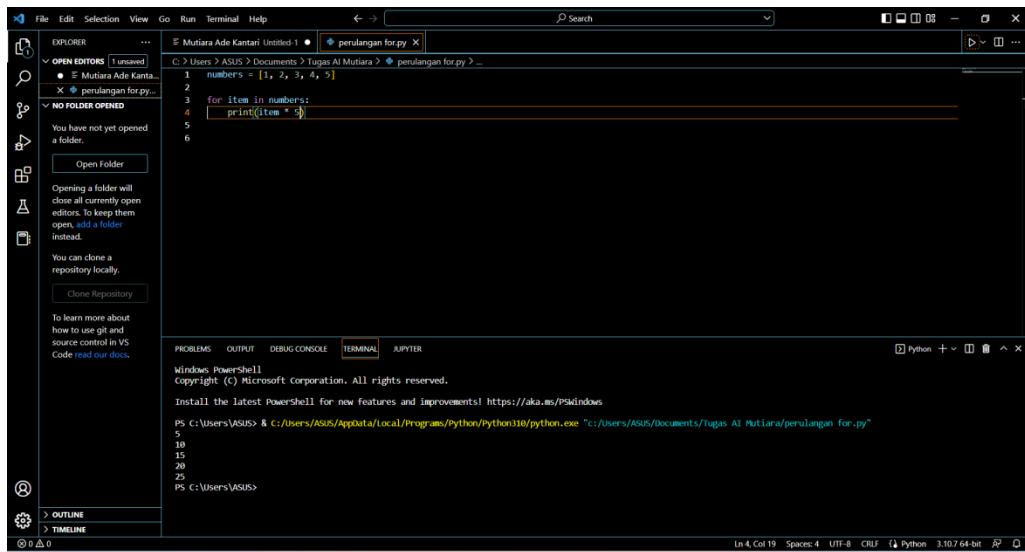
Windows PowerShell
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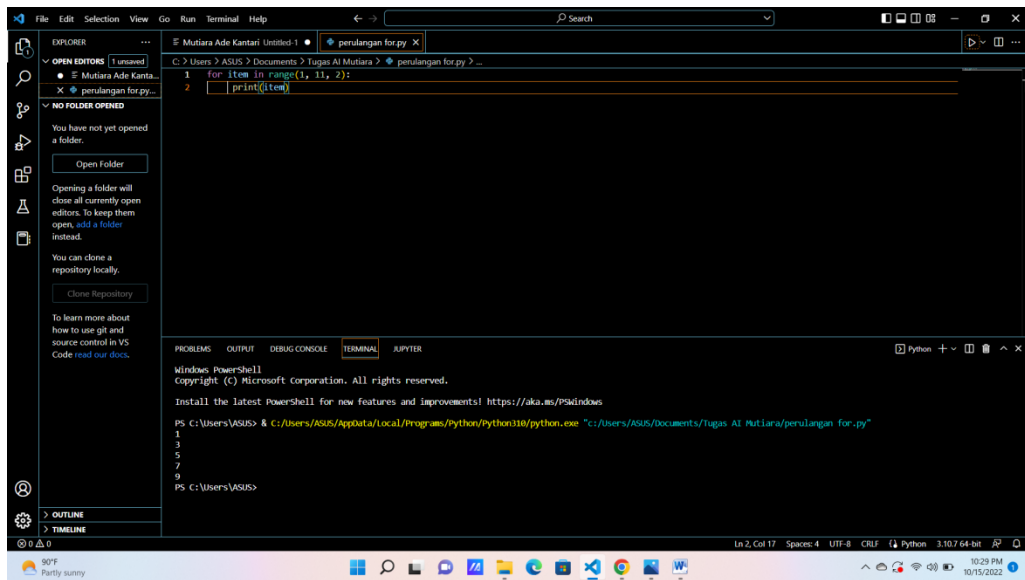
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Documents\Tugas AI Mutiara\perulangan for.py"

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PS C:\Users\ASUS>

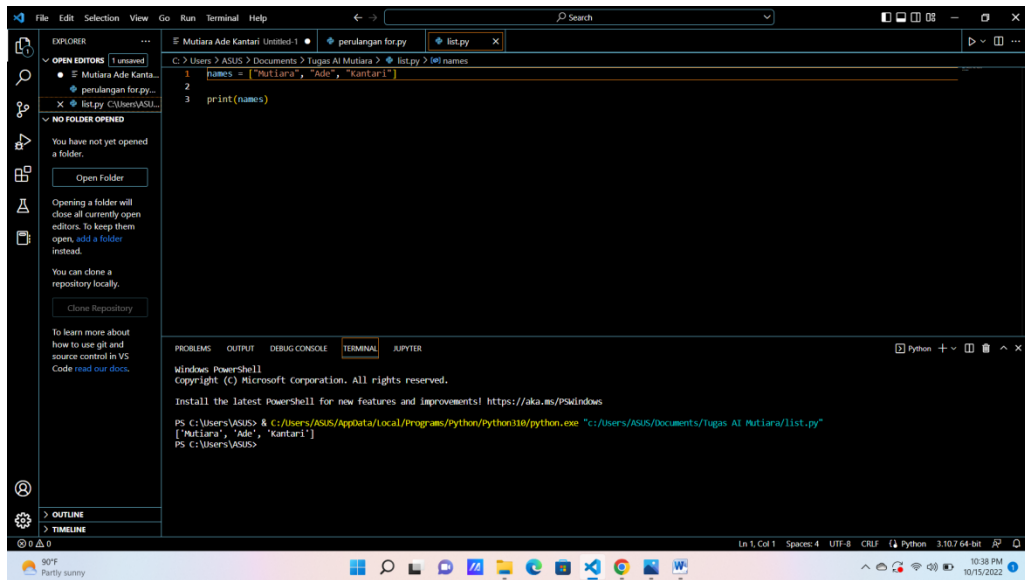
Ln 5, Col 5, Spaces: 4, UTF-8, CRLF, Python 3.10.7 64-bit

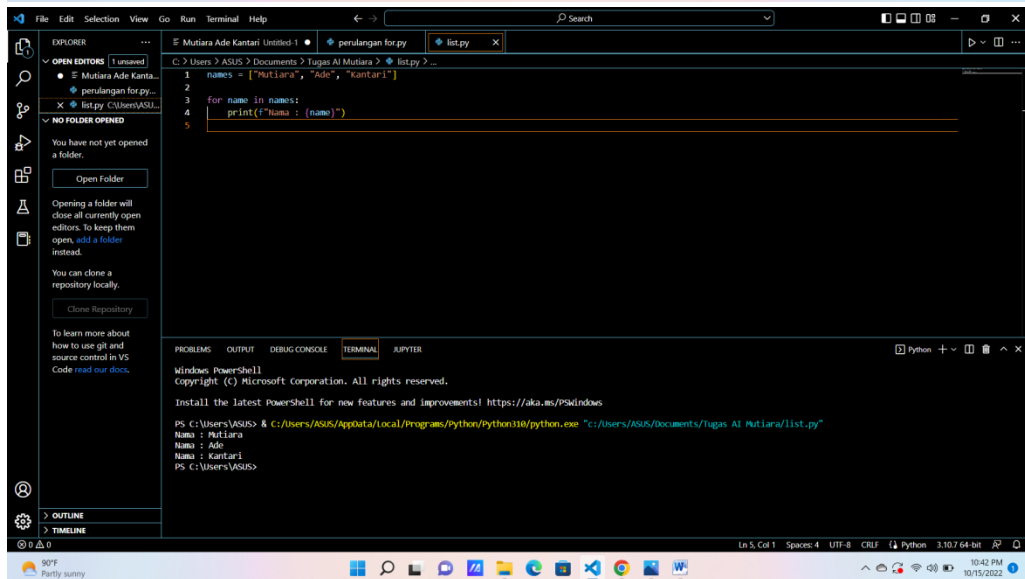
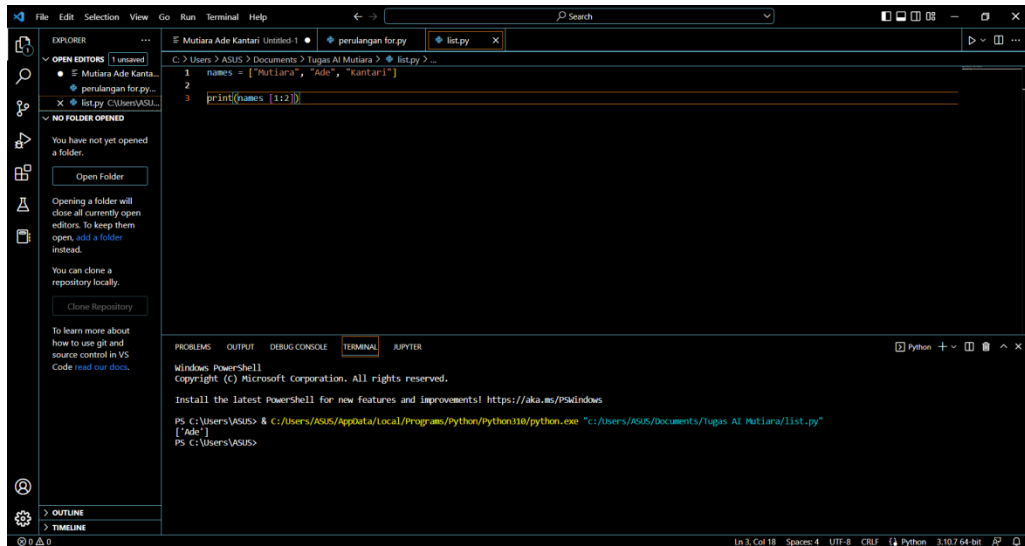
90°F Partly sunny 10:21 PM 10/15/2022





2. List





3. List Method

The image displays two screenshots of the Visual Studio Code (VS Code) editor interface, showing the execution of a Python script using the list method.

Top Screenshot:

- The Explorer pane on the left shows the file structure with "list method.py" selected.
- The Editor pane displays the code in "list method.py":

```
1 numbers = [5, 6, 7, 8, 1,]  
2 print(numbers)  
3  
4 numbers.append(99)  
5 print(numbers)  
6
```
- The Terminal pane at the bottom shows the output of the script:

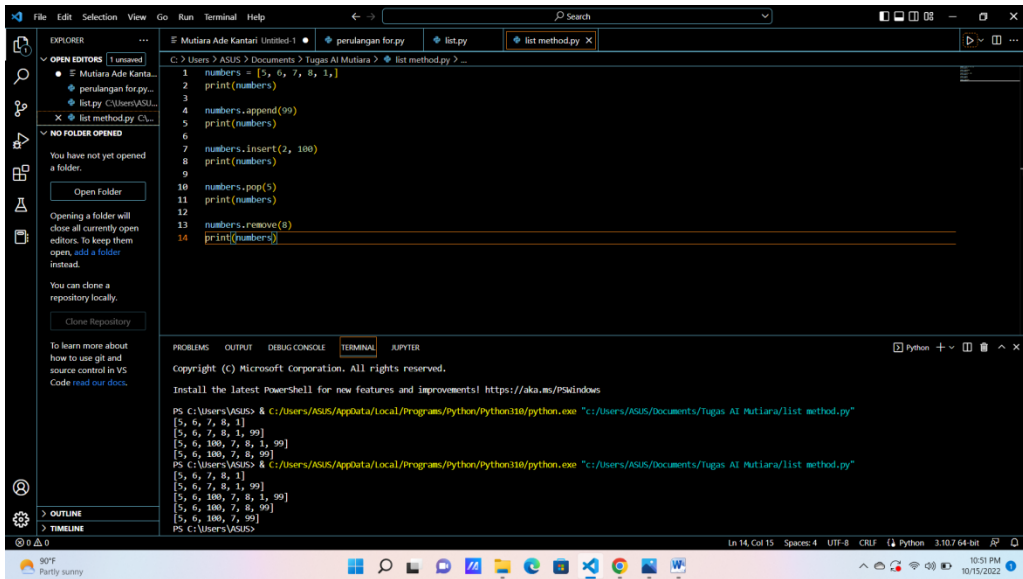
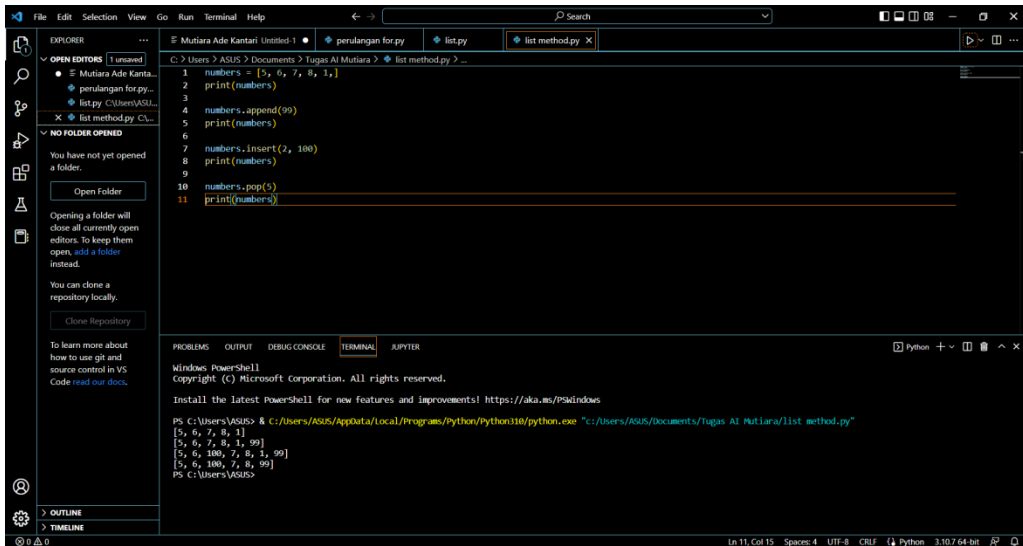
```
Windows PowerShell  
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/list method.py"  
[5, 6, 7, 8, 1,]  
[5, 6, 7, 8, 1, 99]  
PS C:\Users\ASUS>
```

Bottom Screenshot:

- The Explorer pane on the left shows the file structure with "list method.py" selected.
- The Editor pane displays the code in "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)
```
- The Terminal pane at the bottom shows the output of the script:

```
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/list method.py"  
[5, 6, 7, 8, 1,]  
[5, 6, 7, 8, 1, 99]  
[5, 6, 100, 7, 8, 1, 99]  
PS C:\Users\ASUS>
```



The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows the file structure with three files: `perulangan for.py`, `list.py`, and `list method.py`. The main editor window displays the `list method.py` file, which contains a Python script that manipulates a list named `numbers`. The script performs the following operations: initializes `numbers` with `[5, 6, 7, 8, 1]`, prints it, appends `99`, prints it, inserts `100` at index 2, prints it, pops the last element, prints it, removes the element at index 8, prints it, sorts the list, and prints it. The output of the script is displayed in the terminal window at the bottom, showing the list after each operation. The status bar at the bottom indicates the file is at line 17, column 15, using UTF-8 encoding, with a Python 3.10.7 64-bit interpreter.

```
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()
11 print(numbers)
12
13 numbers.remove(8)
14 print(numbers)
15
16 numbers.sort()
17 print(numbers)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
[5, 6, 100, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 99]
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/list method.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]
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/list method.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]
PS C:\Users\ASUS>
```

4. Menjumlahkan list

The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows the file structure with three files: `perulangan for.py`, `list.py`, and `menjumlahkan list.py`. The main editor window displays the `menjumlahkan list.py` file, which contains a Python script that calculates the sum of a list named `numbers`. The script initializes `numbers` with `[5, 6, 7, 8, 1]`, sets `init_number` to 0, iterates over each number in the list, adds it to `init_number`, and prints the final sum. The output of the script is displayed in the terminal window at the bottom, showing the sum of the list elements. The status bar at the bottom indicates the file is at line 8, column 19, using UTF-8 encoding, with a Python 3.10.7 64-bit interpreter.

```
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)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/menjumlahkan list.py"
27
PS C:\Users\ASUS>
```

5. Mencari Angka Max

The image displays two sequential screenshots of the Visual Studio Code editor interface, showing the development of a Python script to find the maximum number in a list.

Top Screenshot:

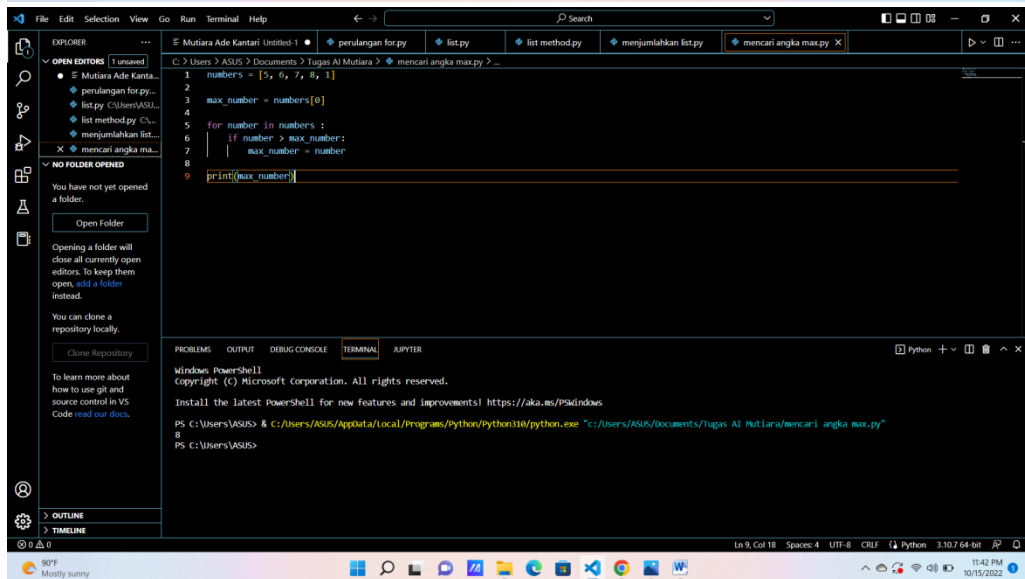
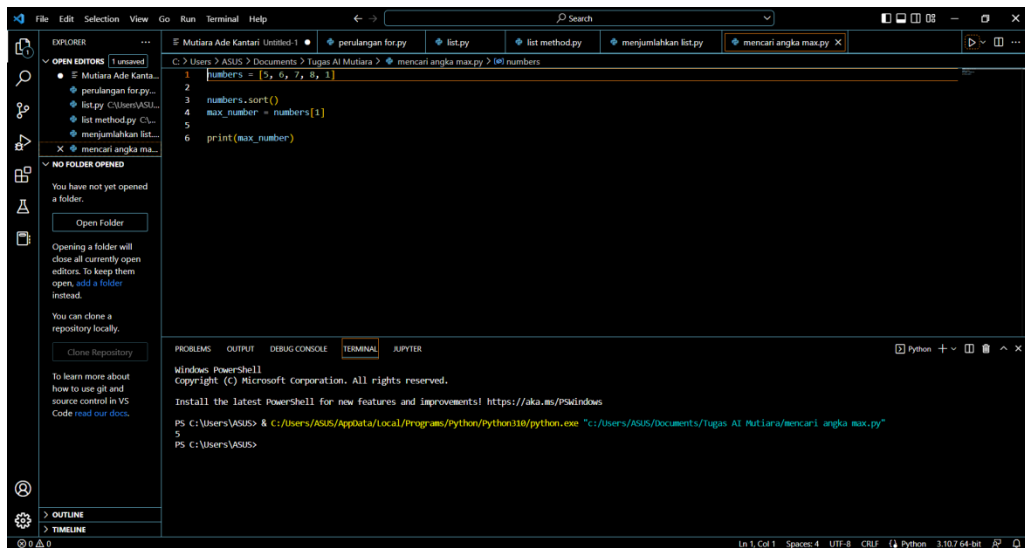
- Explorer:** Shows the file structure with a folder named "Mutiara Ade Kantari" containing several Python files, including "mencari angka max.py".
- Editor:** The file "mencari angka max.py" is open, showing the following code:

```
1 numbers = [5, 6, 7, 8, 1]
2
3 total = sum(numbers)
4 print(total)
```
- Terminal:** The terminal is open, showing the command to run the script: `PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/mencari angka max.py"`. The output is `27`.

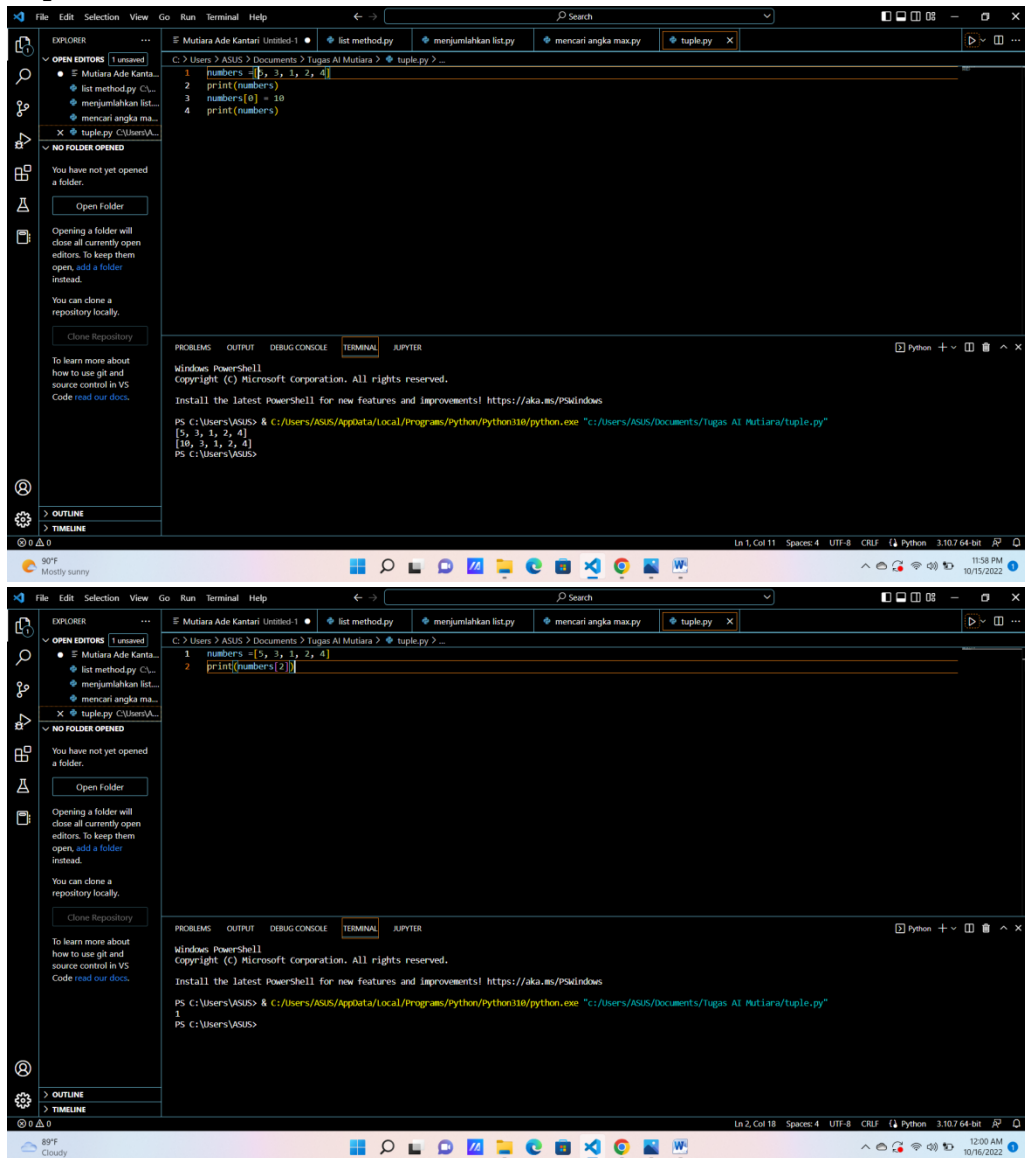
Bottom Screenshot:

- Editor:** The file "mencari angka max.py" is open, showing the following code:

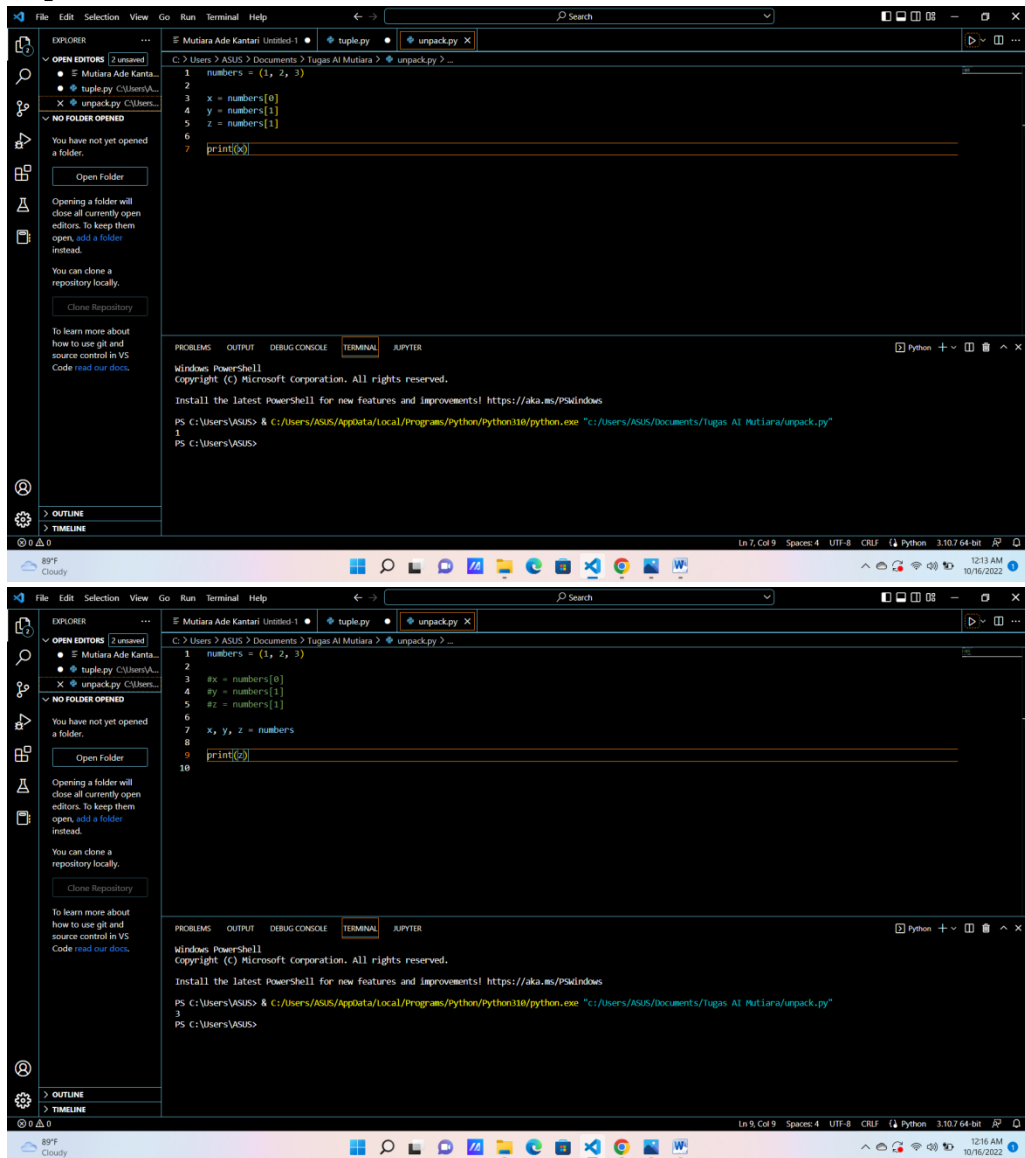
```
1 numbers = [5, 6, 7, 8, 1]
2
3 max_number = max(numbers)
4 print(max_number)
```
- Terminal:** The terminal is open, showing the command to run the script: `PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/mencari angka max.py"`. The output is `8`.

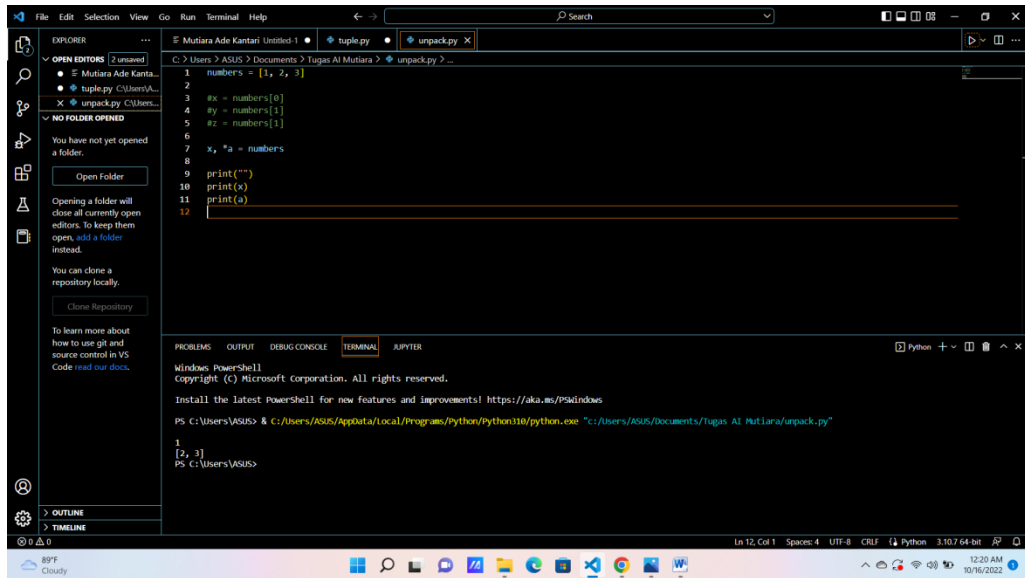


6. Tuple

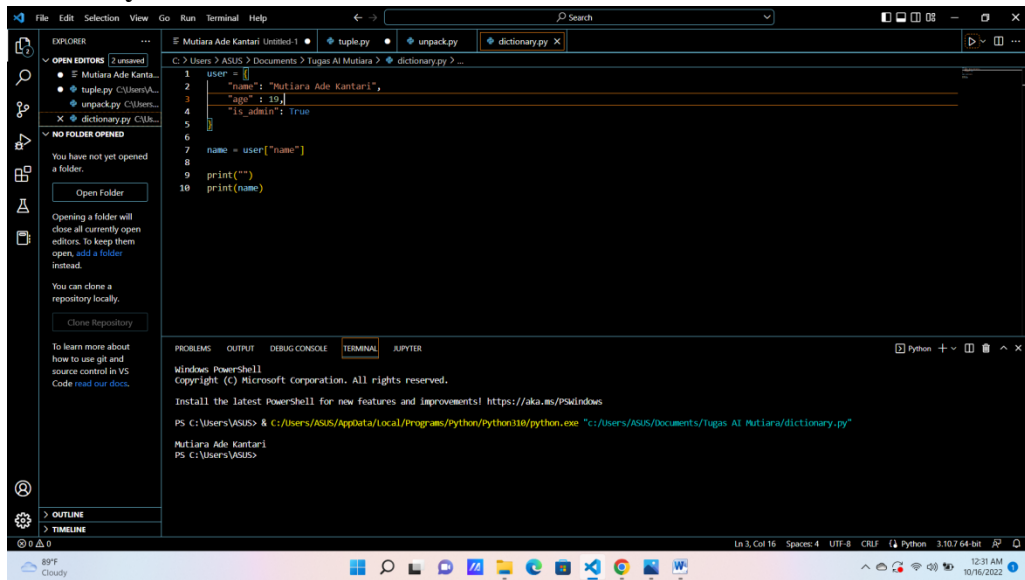


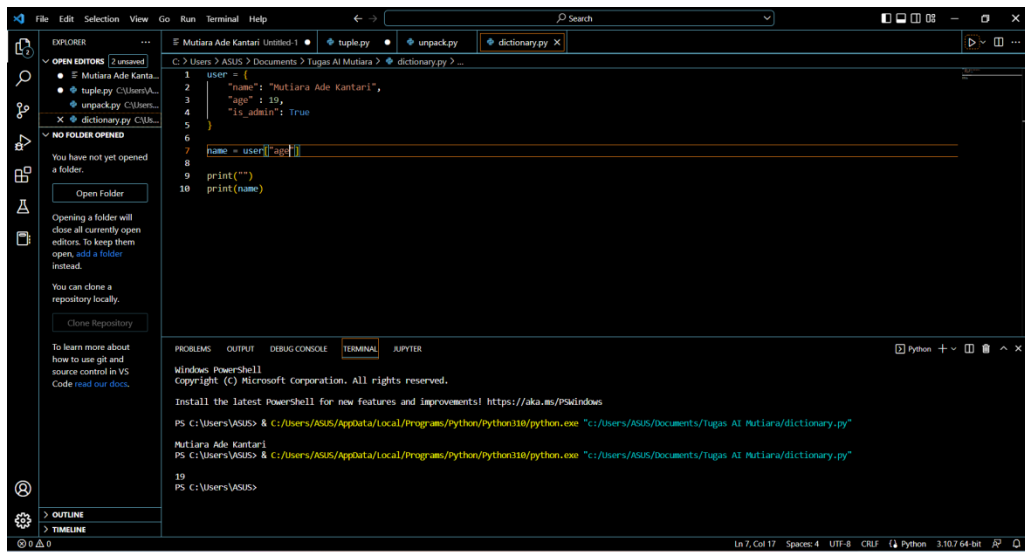
7. Unpack





8. Dictionary





VS Code interface showing a Python script named `dictionary.py` in the editor. The script defines a user dictionary and prints its age.

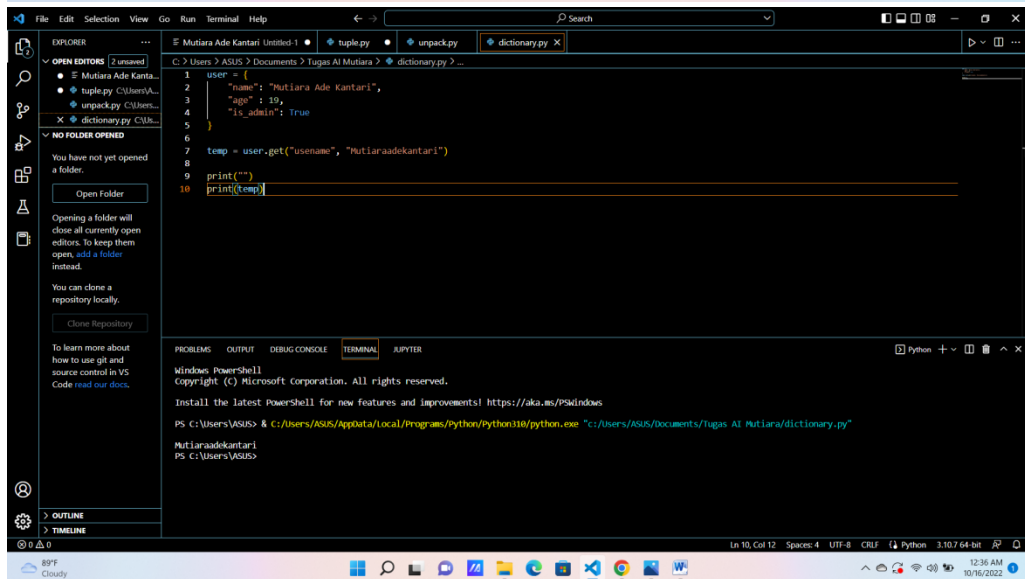
```
1 user = {
2     "name": "Mutlari Ade Kantari",
3     "age": 19,
4     "is_admin": True
5 }
6
7 name = user["age"]
8
9 print("")
10 print(name)
```

The terminal output shows the command to run the script and the output `19`.

```
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PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutlari/dictionary.py"
Mutlari Ade Kantari
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutlari/dictionary.py"
19
PS C:\Users\ASUS>
```



VS Code interface showing the same Python script as above, but with an additional line to get the username.

```
1 user = {
2     "name": "Mutlari Ade Kantari",
3     "age": 19,
4     "is_admin": True
5 }
6
7 temp = user.get("username", "Mutlariadekantari")
8
9 print("")
10 print(temp)
```

The terminal output now shows `Mutlariadekantari`.

```
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PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutlari/dictionary.py"
Mutlariadekantari
PS C:\Users\ASUS>
```

