

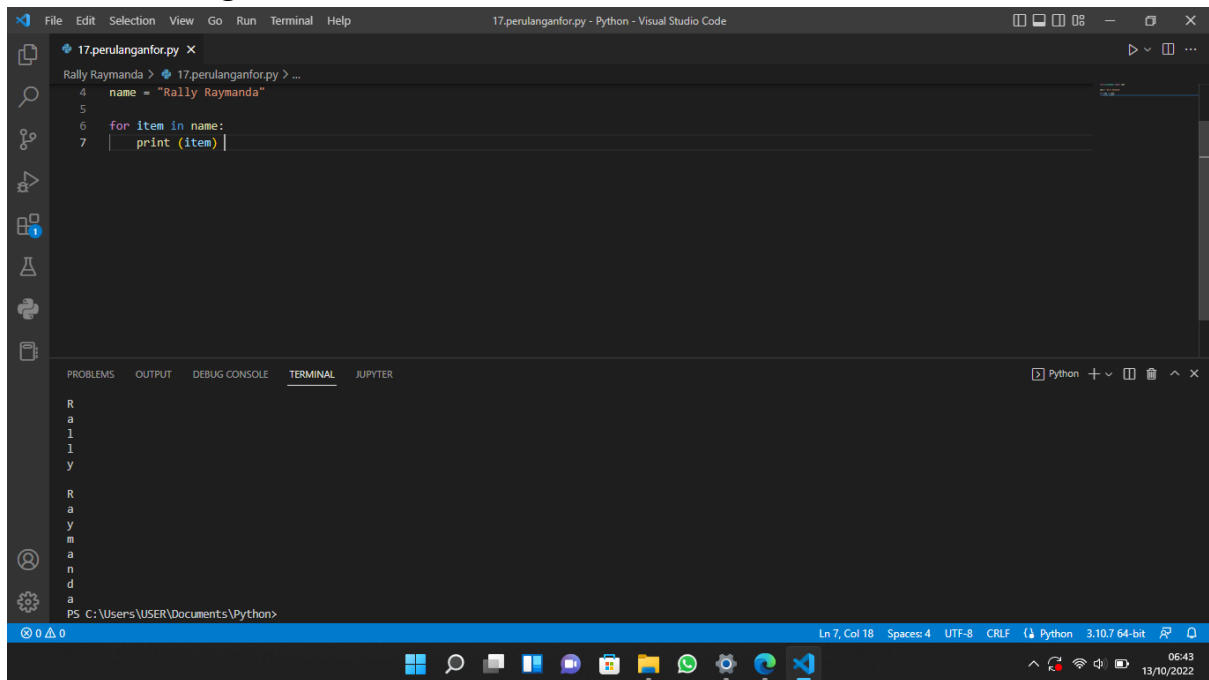
Nama : Rally Raymanda

Nim : 211001012

Kelas : D

## TUGAS KE – 4 (PY 4)

### 1. Perulangan for



The screenshot shows the Visual Studio Code editor with a file named `17.perulanganfor.py`. The code in the editor is as follows:

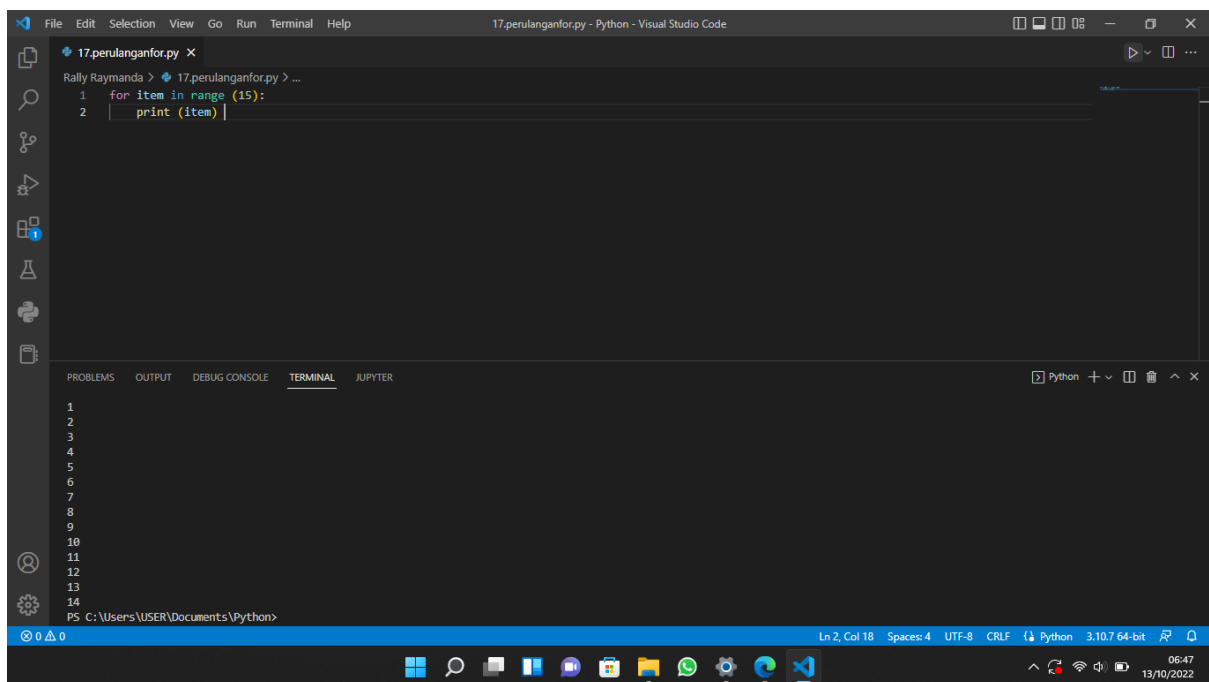
```
4 name = "Rally Raymanda"
5
6 for item in name:
7     print(item)
```

The output in the terminal window is:

```
R
a
l
l
y

R
a
y
m
a
n
d
a
```

The status bar at the bottom indicates the file is at line 7, column 18, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python interpreter is set to 3.10.7 64-bit.



The screenshot shows the Visual Studio Code editor with the same file `17.perulanganfor.py`. The code in the editor is:

```
1 for item in range(15):
2     print(item)
```

The output in the terminal window is:

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
```

The status bar at the bottom indicates the file is at line 2, column 18, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python interpreter is set to 3.10.7 64-bit.

```
File Edit Selection View Go Run Terminal Help 17.perulanganfor.py - Python - Visual Studio Code
```

```
Rally Rayminda > 17.perulanganfor.py > ...  
1 for item in range (1, 15, 2):  
2     print (item)
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER  
9  
10  
11  
12  
13  
14  
PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/17.perulanganfor.py"  
1  
3  
5  
7  
9  
11  
13  
PS C:\Users\USER\Documents\Python>
```

Ln 2, Col 18 Spaces:4 UTF-8 CRLF Python 3.10.7 64-bit

## 2. List

```
File Edit Selection View Go Run Terminal Help 18.list.py - Python - Visual Studio Code
```

```
Rally Rayminda > 18.list.py > ...  
1 names = ["Rally", "Anis", "Ulan", "Jelita", "Lisa"]  
2  
3 print (names)
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER  
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
  
PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/18.list.py"  
['Rally', 'Anis', 'Ulan', 'Jelita', 'Lisa']  
PS C:\Users\USER\Documents\Python>
```

Ln 3, Col 15 Spaces:4 UTF-8 CRLF Python 3.10.7 64-bit

The screenshot shows the Visual Studio Code interface with a Python file named `18.list.py` open. The code in the editor is as follows:

```
1 names = ["Rally", "Anis", "Ulan", "Jelita", "Lisa"]
2
3 print (names [0])
```

The terminal window at the bottom shows the command prompt output:

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

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/18.list.py"
Rally
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the cursor is at line 3, column 19, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python version is 3.10.7 64-bit.

The screenshot shows the Visual Studio Code interface with a Python file named `18.list.py` open. The code in the editor is as follows:

```
1 names = ["Rally", "Anis", "Ulan", "Jelita", "Lisa"]
2
3 for name in names :
4     print (f" Nama : {name} ")
```

The terminal window at the bottom shows the command prompt output:

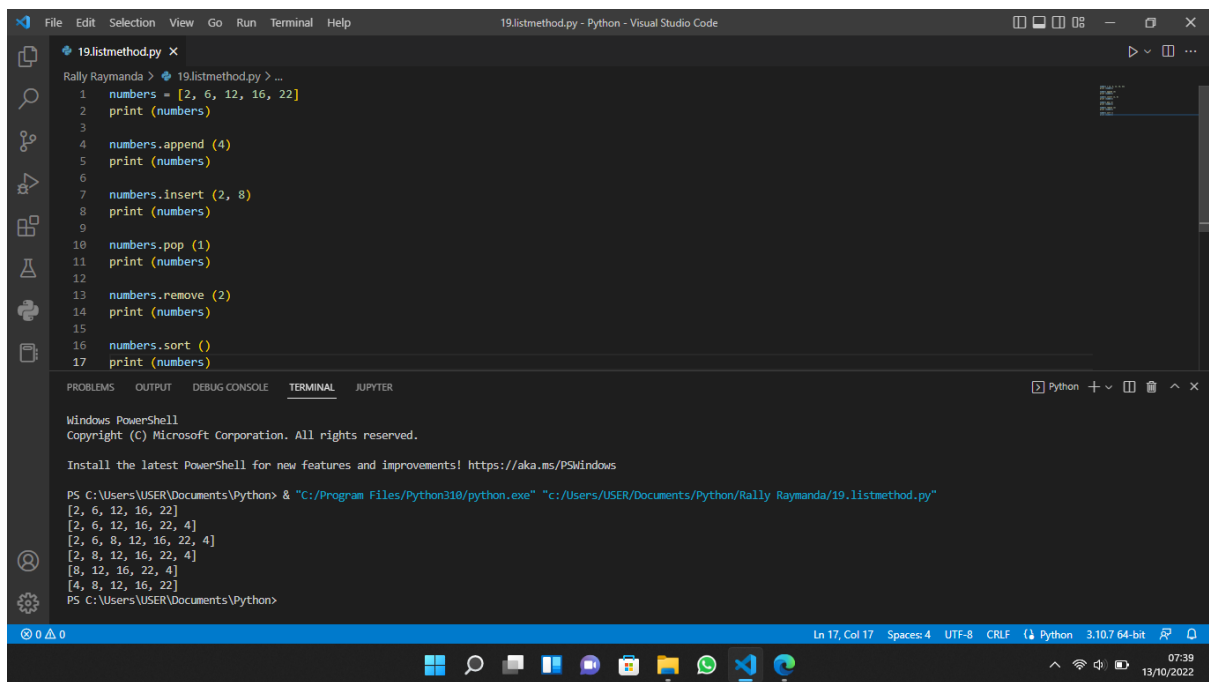
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/18.list.py"
Nama : Rally
Nama : Anis
Nama : Ulan
Nama : Jelita
Nama : Lisa
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the cursor is at line 4, column 32, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python version is 3.10.7 64-bit.

### 3. List method



The screenshot shows a Visual Studio Code window with a Python file named `19.listmethod.py`. The code defines a list `numbers` and applies several list methods: `print`, `append`, `insert`, `pop`, `remove`, and `sort`. The terminal window below shows the execution output, which matches the code's logic.

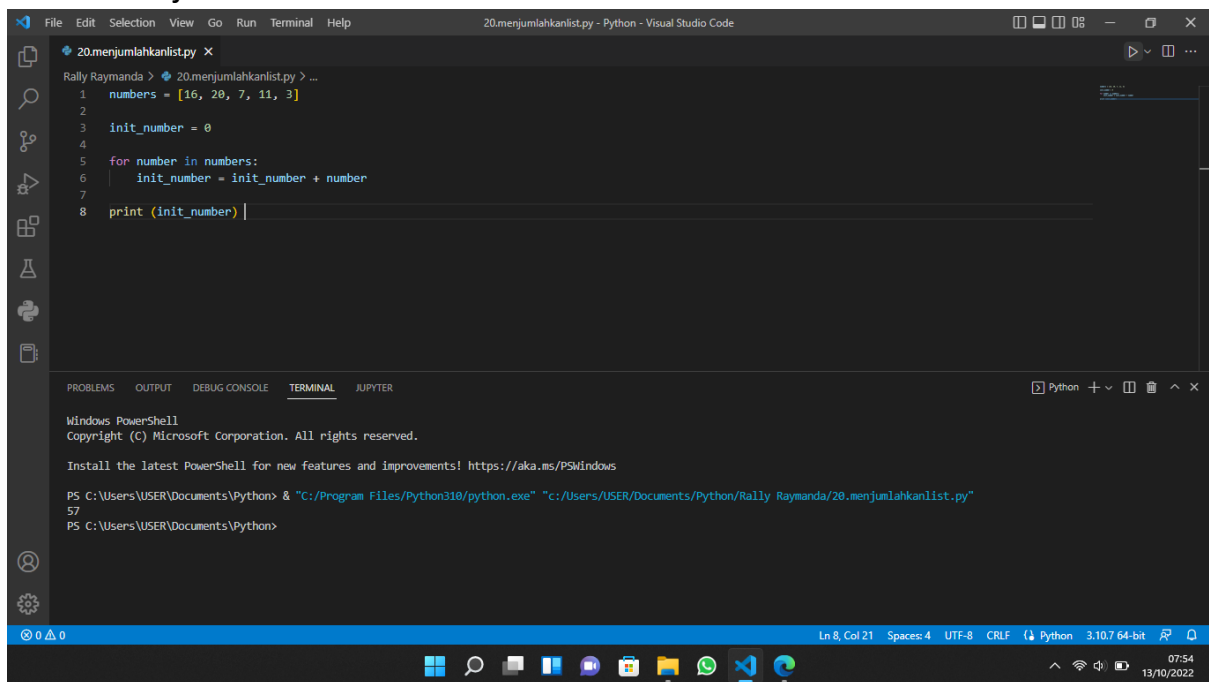
```
19.listmethod.py
Rally Rayminda > 19.listmethod.py > ...
1 numbers = [2, 6, 12, 16, 22]
2 print (numbers)
3
4 numbers.append (4)
5 print (numbers)
6
7 numbers.insert (2, 8)
8 print (numbers)
9
10 numbers.pop (1)
11 print (numbers)
12
13 numbers.remove (2)
14 print (numbers)
15
16 numbers.sort ()
17 print (numbers)
```

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

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/19.listmethod.py"
[2, 6, 12, 16, 22]
[2, 6, 12, 16, 22, 4]
[2, 6, 8, 12, 16, 22, 4]
[2, 8, 12, 16, 22, 4]
[8, 12, 16, 22, 4]
[4, 8, 12, 16, 22]
```

### 4. Menjumlahkan list



The screenshot shows a Visual Studio Code window with a Python file named `20.menjumlahkanlist.py`. The code defines a list `numbers`, initializes a variable `init_number` to 0, and uses a `for` loop to calculate the sum of the list elements. The terminal window shows the execution output, which is the sum of the list elements.

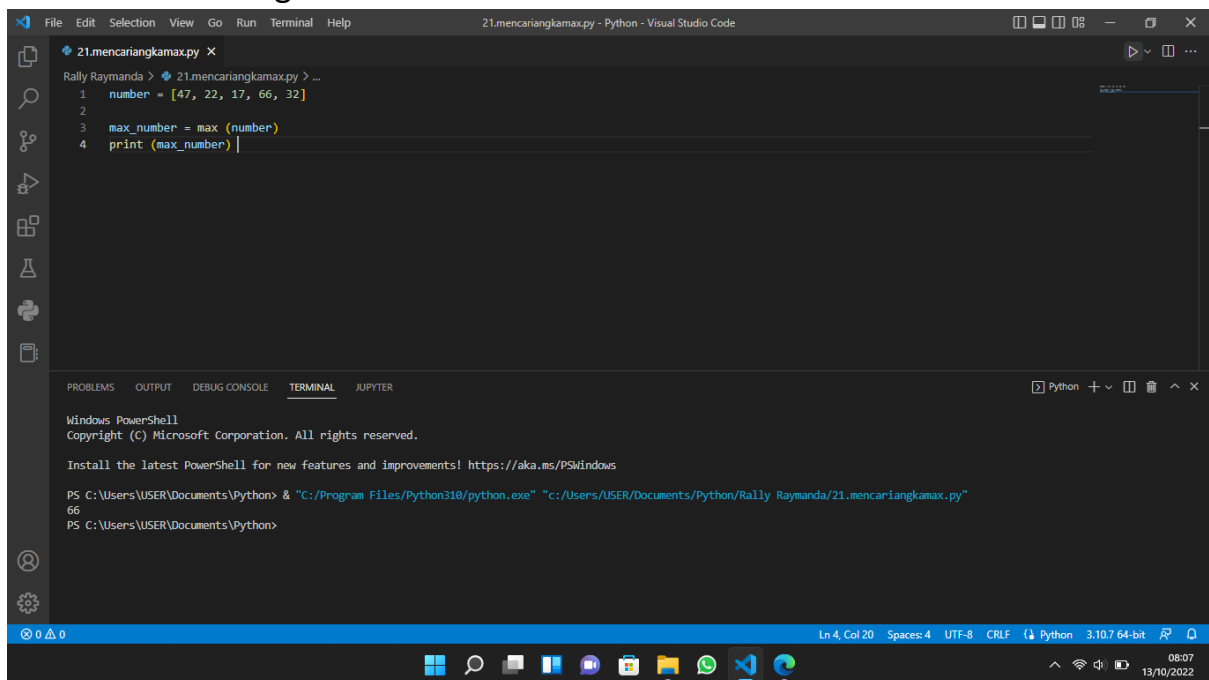
```
20.menjumlahkanlist.py
Rally Raymanda > 20.menjumlahkanlist.py > ...
1 numbers = [16, 20, 7, 11, 3]
2
3 init_number = 0
4
5 for number in numbers:
6     init_number = init_number + number
7
8 print (init_number)
```

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

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/20.menjumlahkanlist.py"
57
```

## 5. Mencari angka max



The screenshot shows the Visual Studio Code editor with a file named `21.mencariangkamax.py`. The code in the editor is as follows:

```
1 number = [47, 22, 17, 66, 32]
2
3 max_number = max(number)
4 print(max_number)
```

The terminal at the bottom shows the execution of the script:

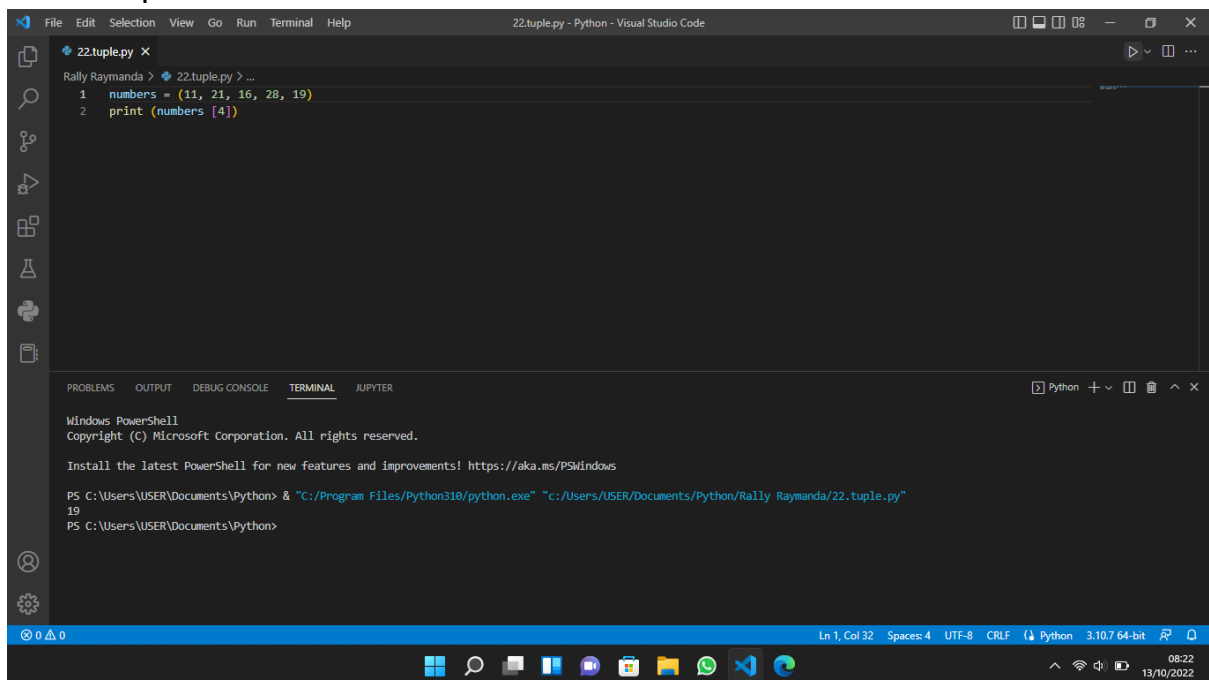
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/21.mencariangkamax.py"
66
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the current line and column as `Ln 4, Col 20`, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python version is 3.10.7 64-bit.

## 6. Tuple



The screenshot shows the Visual Studio Code editor with a file named `22.tuple.py`. The code in the editor is as follows:

```
1 numbers = (11, 21, 16, 28, 19)
2 print(numbers[4])
```

The terminal at the bottom shows the execution of the script:

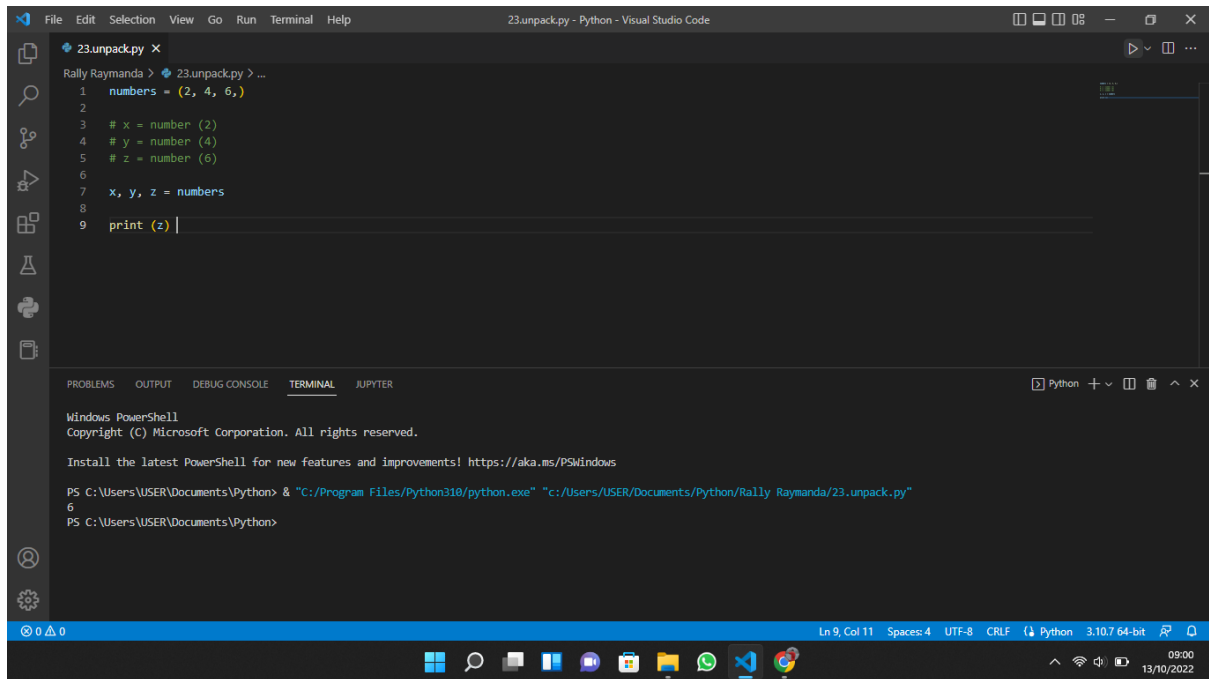
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymanda/22.tuple.py"
19
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the current line and column as `Ln 1, Col 32`, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python version is 3.10.7 64-bit.

## 7. Unpack



The screenshot shows the Visual Studio Code editor with a file named `23.unpack.py` open. The code in the editor is as follows:

```
1 numbers = (2, 4, 6,)
2
3 # x = number (2)
4 # y = number (4)
5 # z = number (6)
6
7 x, y, z = numbers
8
9 print(z) |
```

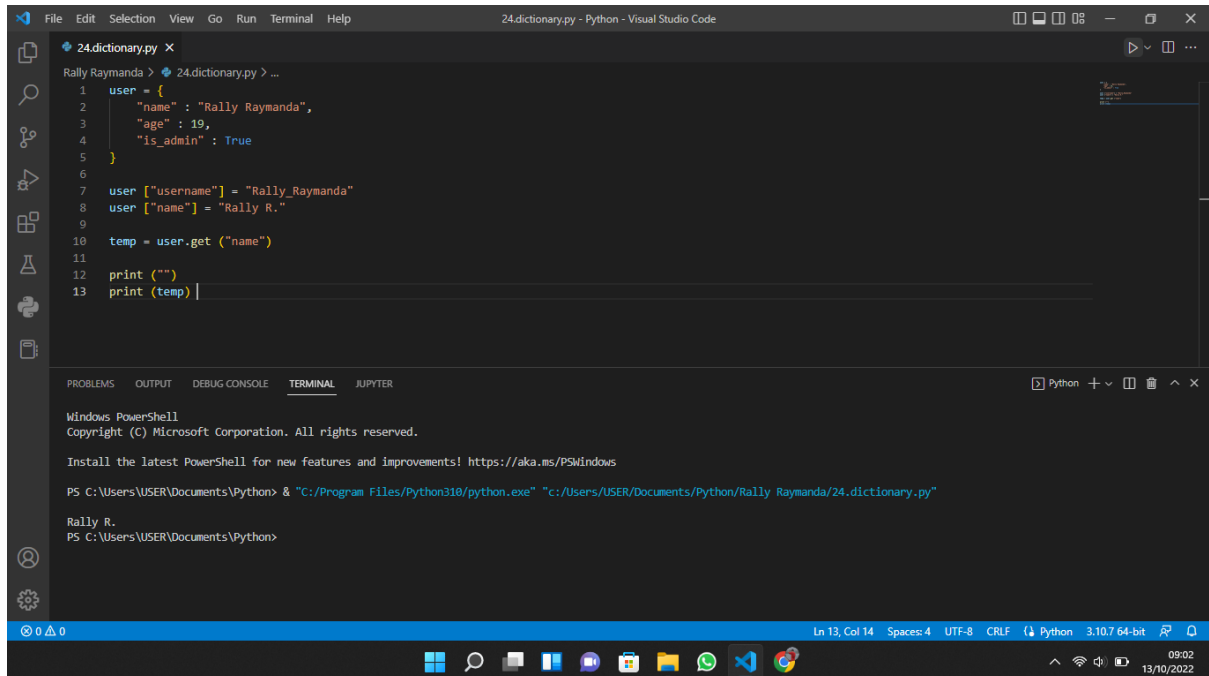
The terminal at the bottom shows the execution of the script using Python 3.10.7. The output is the number 6.

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

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymunda/23.unpack.py"
6
PS C:\Users\USER\Documents\Python>
```

## 8. Dictionary



The screenshot shows the Visual Studio Code editor with a file named `24.dictionary.py` open. The code in the editor is as follows:

```
1 user = {
2     "name": "Rally Raymunda",
3     "age": 19,
4     "is_admin": True
5 }
6
7 user["username"] = "Rally_Raymunda"
8 user["name"] = "Rally R."
9
10 temp = user.get("name")
11
12 print("")
13 print(temp) |
```

The terminal at the bottom shows the execution of the script using Python 3.10.7. The output is an empty string followed by the value Rally R.

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

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Rally Raymunda/24.dictionary.py"

Rally R.
PS C:\Users\USER\Documents\Python>
```