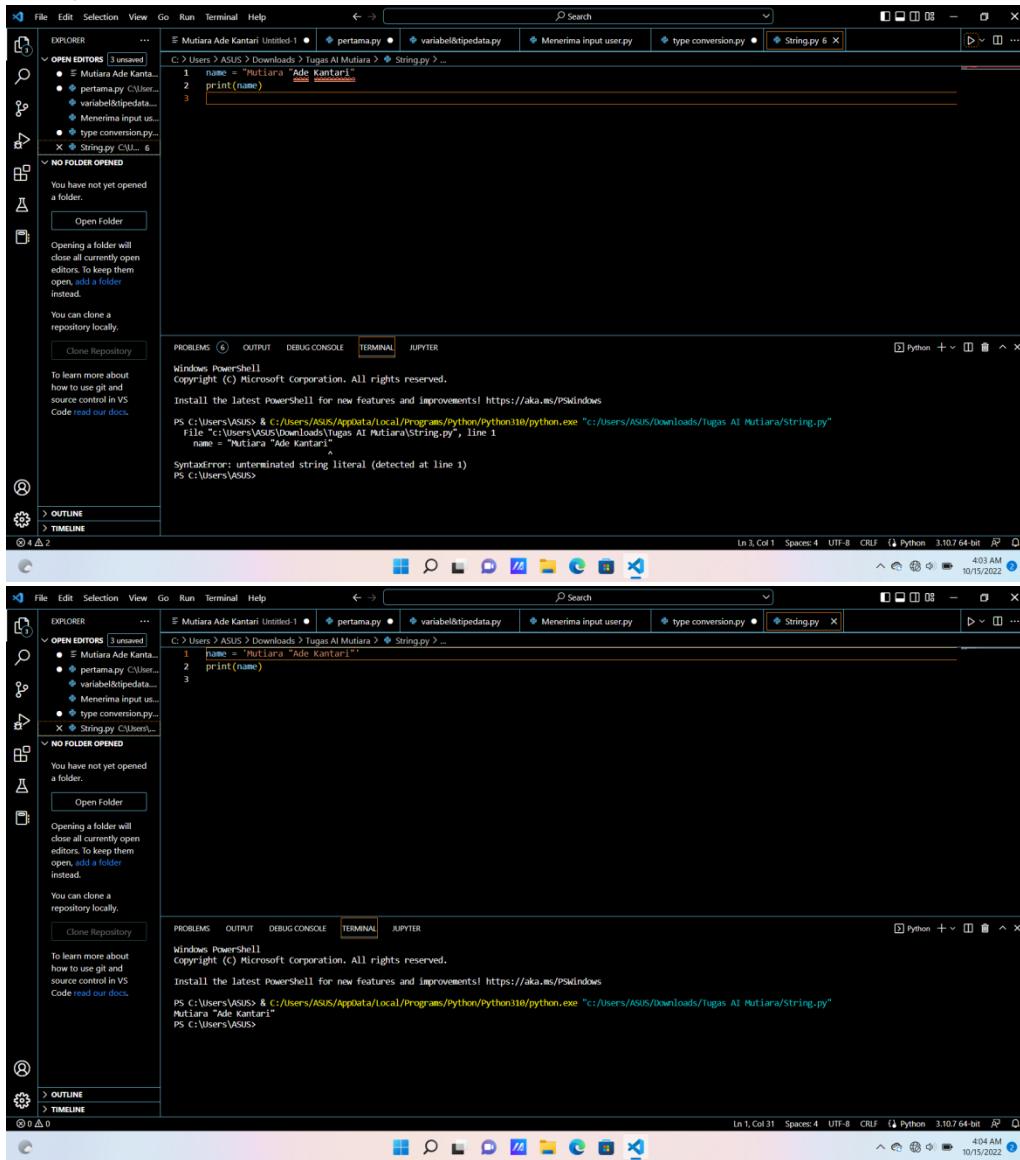


MINGGU II PY2

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1. String



The image shows two side-by-side screenshots of the Visual Studio Code (VS Code) interface. Both screenshots display a Python script named `String.py` in the editor, which contains the following code:`name = "Mutiara Ade Kantari"
print(name)`

The first screenshot's terminal window (Windows PowerShell) shows the output of the script:`PS C:\Users\ASUS> & c:/users/asus/appdata/local/programs/python/python310/python.exe "c:/users/asus/downloads/tugas al mutiara/String.py"
File "c:/users/asus/downloads/tugas al mutiara/String.py", line 1
 name = "Mutiara Ade Kantari"
 ^
SyntaxError: unterminated string literal (detected at line 1)
PS C:\Users\ASUS>`

The second screenshot's terminal window (Windows PowerShell) shows the same output, indicating the script ran successfully.

The image shows two side-by-side screenshots of the Visual Studio Code (VS Code) interface, both displaying a terminal window and an editor window.

Top Screenshot:

- Terminal:** Shows a Windows PowerShell session with the following output:

```
C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/Tugas AI Mutiara/string.py"
PS C:\Users\ASUS>
```
- Editor:** Shows a file named `String.py` with the following code:

```
1 name = "Mutiara Ade Kantari"
2 print(name)
```
- Status Bar:** Displays "In 3, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit" and the date/time "10/15/2022 4:05 AM".

Bottom Screenshot:

- Terminal:** Shows a Windows PowerShell session with the following output:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/Tugas AI Mutiara/string.py"
M
PS C:\Users\ASUS>
```
- Editor:** Shows the same `String.py` file with the code:

```
1 name = "Mutiara Ade Kantari"
2 print(name[1])
```
- Status Bar:** Displays "In 2, Col 13 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit" and the date/time "10/15/2022 4:07 AM".

The screenshot shows the Visual Studio Code interface with two windows side-by-side.

Left Window:

- Explorer:** Shows a folder named "Mutara Ade Kantar" containing several Python files: pertama.py, variabel&tipe data.py, Menerima input user.py, type conversion.py, and String.py.
- Terminal:** Displays the following PowerShell session:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/Tugas AI Mutara/String.py"
Mutara
PS C:\Users\ASUS>
```

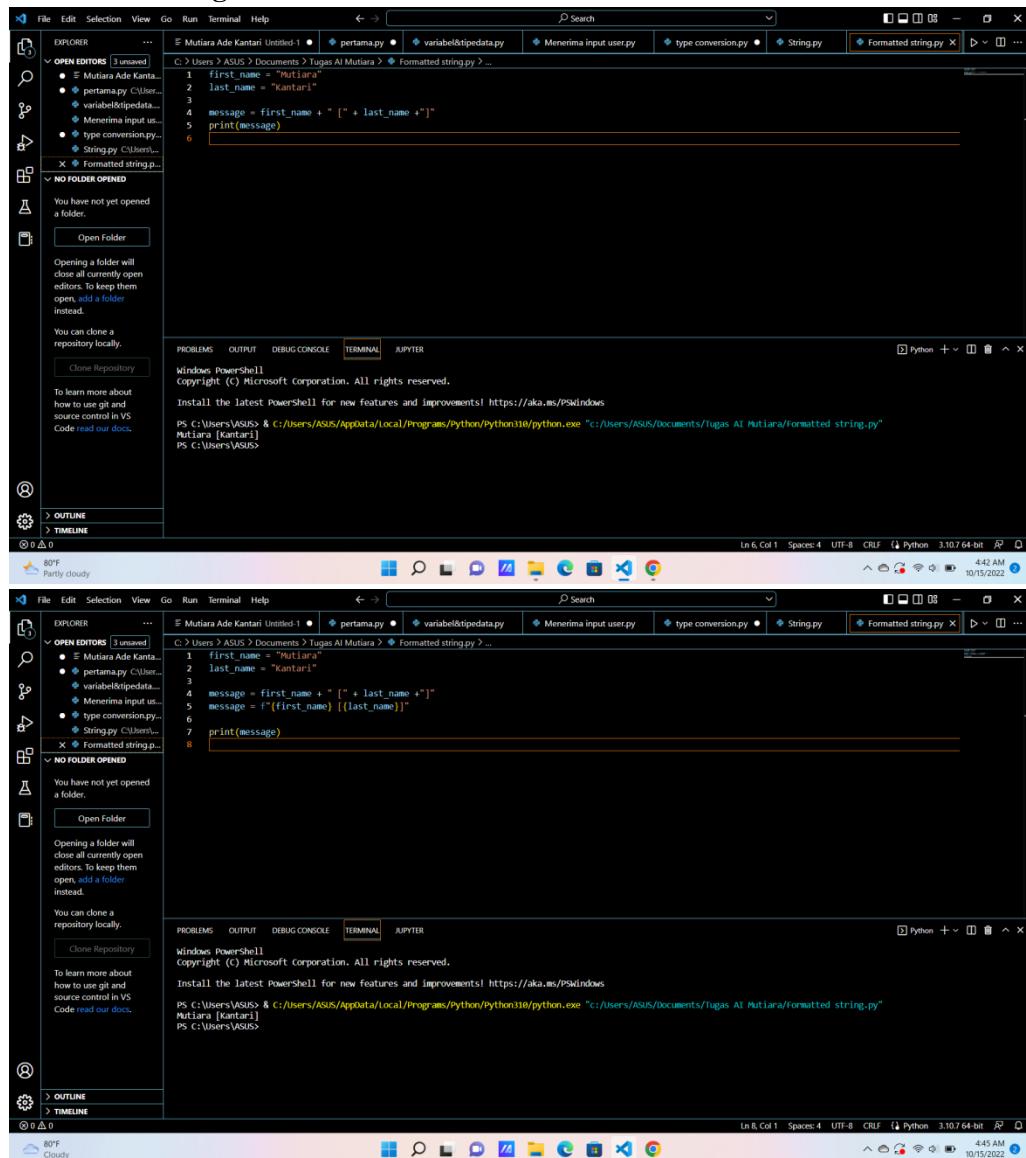
Right Window:

- Explorer:** Shows the same folder structure as the left window.
- Terminal:** Displays the following PowerShell session:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Downloads/Tugas AI Mutara/String.py"
Mutara
PS C:\Users\ASUS>
```

Both windows show the status bar at the bottom indicating the file is in Python mode, has 3 unsaved changes, and was last modified at 10/15/2022.

2. Formatted String



```
C:\Users>ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/users/ASUS/Documents/Tugas AI Mutiara/formatted string.py"
Mutiara [Kantari]
PS C:\Users\ASUS>
```

```
C:\Users>ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/users/ASUS/Documents/Tugas AI Mutiara/formatted string.py"
Mutira Ade Kantari
pertama.py
variabel&tipe data.py
Menerima input user.py
type conversion.py
String.py
Formatted string.py
PS C:\Users\ASUS>
```

```
first_name = "Mutira"
last_name = "Kantari"

message = first_name + " " + last_name + "]"
message = f"{first_name} {last_name}"
print(message)
```

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/users/ASUS/Documents/Tugas AI Mutiara/formatted string.py"
Mutira Ade Kantari
pertama.py
variabel&tipe data.py
Menerima input user.py
type conversion.py
String.py
Formatted string.py
PS C:\Users\ASUS>
```

```
first_name = "Mutira"
last_name = "Kantari"

message = first_name + " " + last_name + "]"
message = f"{first_name} {last_name}"
print(message)
```

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/users/ASUS/Documents/Tugas AI Mutiara/formatted string.py"
Mutira Ade Kantari
pertama.py
variabel&tipe data.py
Menerima input user.py
type conversion.py
String.py
Formatted string.py
PS C:\Users\ASUS>
```

A screenshot of the Visual Studio Code (VS Code) interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows the current workspace path: C:\Users\ASUS\Documents> Tugas AI Mutiara > Formatted string.py. The left sidebar has sections for Explorer, Open Editors, and NO FOLDER OPENED. The main editor area contains Python code:

```
1 age = 19
2 message = f"umur kamu {age}"
3
4 print(message)
5
```

The terminal at the bottom shows the output of running the script:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/formatted string.py"
umur kamu 19
PS C:\Users\ASUS>
```

The status bar at the bottom right indicates the file is 4 lines long, 14 columns wide, using UTF-8 encoding, and is a Python 3.10.7 64-bit file.

3. String Method

A screenshot of the Visual Studio Code (VS Code) interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar. The title bar shows the current workspace path: C:\Users\ASUS> Tugas Al Mutiara > string method.py. The left sidebar has sections for Explorer, Open Editors, and NO FOLDER OPENED. The main editor area contains Python code:

```
1 course = "Belajar python bareng Mutiara Ade Kantari"
2 length = len(course)
3
4 print(length)
```

The terminal at the bottom shows the output of running the script:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas Al Mutiara/string method.py"
41
PS C:\Users\ASUS>
```

The status bar at the bottom right indicates the file is 4 lines long, 14 columns wide, using UTF-8 encoding, and is a Python 3.10.7 64-bit file.

The image shows two side-by-side instances of Microsoft Visual Studio Code (VS Code) running on a Windows operating system. Both instances have identical configurations and content.

Top Instance (Left):

- Terminal:** Running in Windows PowerShell. The command `python "c:/users/asus/documents/tugas ai mutiara/string method.py"` is run, resulting in the output:

```
1 course = "Belajar python bareng Mutiara Ade Kantari"
2 print(course.upper())
3 print(course)
```

```
BELAJAR PYTHON BARENG MUTIARA ADE KANTARI
BELAJAR PYTHON BARENG MUTIARA ADE KANTARI
Belajar python bareng Mutiara Ade Kantari
```
- Bottom Instance (Right):** Similar setup to the left instance, also running in Windows PowerShell. The command `python "c:/users/asus/documents/tugas ai mutiara/string method.py"` is run, resulting in the same output as the left instance.

Both VS Code instances show the following details in their status bars:

- Ln 2, Col 21 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
- 5:05 AM 10/15/2022

The screenshot shows two instances of the Visual Studio Code (VS Code) interface running side-by-side on a Windows desktop. Both instances have the same workspace open, featuring three code editors in the 'OPEN EDITORS' sidebar:

- String.py
- Formatted string.py
- string method.py (highlighted)

The 'string method.py' editor contains the following Python code:

```
1 course = "Belajar python bareng Mutiara Ade Kantari"
2 course_capital = course.upper()
3
4 print(course_capital)
5
6
```

The bottom half of each VS Code window displays a terminal window titled 'TERMINAL'. The terminal output is identical for both instances:

```
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\ASUS> & c:/users/asus/appdata/local/programs/python/python310/python.exe "c:/users/asus/documents/tugas ai mutiara/string method.py"
BELAJAR PYTHON BARENG MUTIARA ADE KANTARI
PS C:\Users\ASUS>
```

The system tray at the bottom of the screen shows the date and time as 10/15/2022, 5:09 AM.

The screenshot shows two instances of the Visual Studio Code (VS Code) interface running side-by-side on a Windows desktop. Both instances have the same workspace open, featuring three code editors at the top: 'String.py', 'Formatted string.py', and 'string method.py'. The 'string method.py' editor contains the following Python code:

```
1 course = "belajar python bareng Mutiara Ade Kantari"
2 print(course.capitalize())
3
4
```

The bottom half of each VS Code window is a terminal window titled 'TERMINAL'. It displays the output of running the script in a Windows PowerShell environment. The terminal output is identical for both instances:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/local/Programs/python/python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/string method.py"
belajar python bareng mutiara ade kantari
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/local/Programs/python/python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/string method.py"
Belajar python bareng mutiara ade kantari
PS C:\Users\ASUS>
```

The desktop taskbar at the bottom shows several pinned icons, including File Explorer, Edge browser, and File History. The system tray indicates it's 5:11 AM on 10/15/2022.

The image displays two side-by-side instances of the Microsoft Visual Studio Code (VS Code) interface running on a Windows operating system. Both windows show the same code editor and terminal output.

Code Editor:

- File Path:** C:\Users\ASUS\Documents>Tugas AI Mutiara>string method.py
- Code Content:**

```
1 course = "belajar python bareng Mutiara Ade Kantari"
2 language = "javascript"
3 print(course.replace("python", "javascript"))
```

Terminal:

- OS:** Windows PowerShell
- Output:**

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/string method.py"
belajar javascript bareng Mutiara Ade Kantari
PS C:\Users\ASUS>
```

System Status Bar:

- 80°F Cloudy
- 515 AM 10/15/2022
- Ln 3, Col 1 Spaces: 4 UTT-8 CRLF Python 3.10.7 64-bit

Bottom Window:

This window is identical to the top one, showing the same code editor and terminal output.

4. Matematika

The image shows two side-by-side instances of Microsoft Visual Studio Code (VS Code) running on a Windows operating system. Both instances have identical configurations and content.

Top Window (Left):

- Terminal:** Displays a Python script named "Matematika.py".

```
x = 10
y = 5
print(x + y)
```
- Output:** Shows the command prompt (Windows PowerShell) and its output:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/Matematika.py"
15
PS C:\Users\ASUS>
```
- Status Bar:** Shows "Ln 4, Col 1" and "Python 3.10.7 64-bit".

Bottom Window (Right):

- Terminal:** Displays the same Python script and command prompt output as the top window.

```
x = 10
y = 5
print(x - y)
```

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/Matematika.py"
5
PS C:\Users\ASUS>
```
- Status Bar:** Shows "Ln 4, Col 1" and "Python 3.10.7 64-bit".

The desktop taskbar at the bottom of the screen shows several pinned icons, including File Explorer, Microsoft Edge, and File History.

The image shows two identical instances of the Visual Studio Code (VS Code) interface side-by-side. Both instances have the following characteristics:

- Editor View:** The left sidebar shows the "EXPLORER" view with a single file named "Matematika.py" listed under "OPEN EDITORS". The right sidebar shows the "OUTLINE" and "TIMELINE" views.
- Code Editor:** The main editor area contains the following Python code:

```
x = 10
y = 5
print(x ** y)
```
- Terminal View:** The bottom half of the interface is a terminal window titled "TERMINAL". It shows the following command-line session:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/Matematika.py"
50
PS C:\Users\ASUS>
```
- System Status Bar:** The status bar at the bottom of each window displays the following information:
 - Line 4, Col 1
 - Spaces: 4
 - UTF-8
 - CRLF
 - Python 3.10.7 64-bit
 - 8:12 PM
 - 10/15/2022

The screenshot shows the Visual Studio Code interface. The left sidebar displays the Explorer, Open Editors, and Terminal sections. The main area shows a Python file named 'Matematika.py' with the following code:

```
x = 10  
y = 5  
print(x / y)
```

The terminal tab is active, showing the output of running the script in a Windows PowerShell window:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/Matematika.py"  
2.0  
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the code is at line 3, column 10, with 4 spaces, using UTF-8 encoding, and is a Python 3.10.7 64-bit build.

5. Operator Precedence

The screenshot shows the Visual Studio Code interface. The left sidebar displays the Explorer, Open Editors, and Terminal sections. The main area shows a Python file named 'operator precedence.py' with the following code:

```
number = 4 + 10 * 8  
print(number)
```

The terminal tab is active, showing the output of running the script in a Windows PowerShell window:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator precedence.py"  
84  
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the code is at line 3, column 1, with 4 spaces, using UTF-8 encoding, and is a Python 3.10.7 64-bit build.

The image shows two side-by-side instances of Microsoft Visual Studio Code (VS Code) running on a Windows operating system. Both instances have identical configurations and content.

Top Window (Left):

- Terminal:** Displays the following Python code in the editor:

```
1 number = 4 + 10 * 8 **2
2 print(number)
3
4 #tanda kurung
5 #perpangkatan
6 #perkalian atau pembagian
7 #penjumlahan atau pengurangan
```

- Output:** Shows the command being run in a Windows PowerShell terminal:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator precedence.py"
644
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator precedence.py"
644
PS C:\Users\ASUS>
```

- Status Bar:** Shows "Ln 7, Col 29" and "Python 3.10.7 64-bit".

Bottom Window (Right):

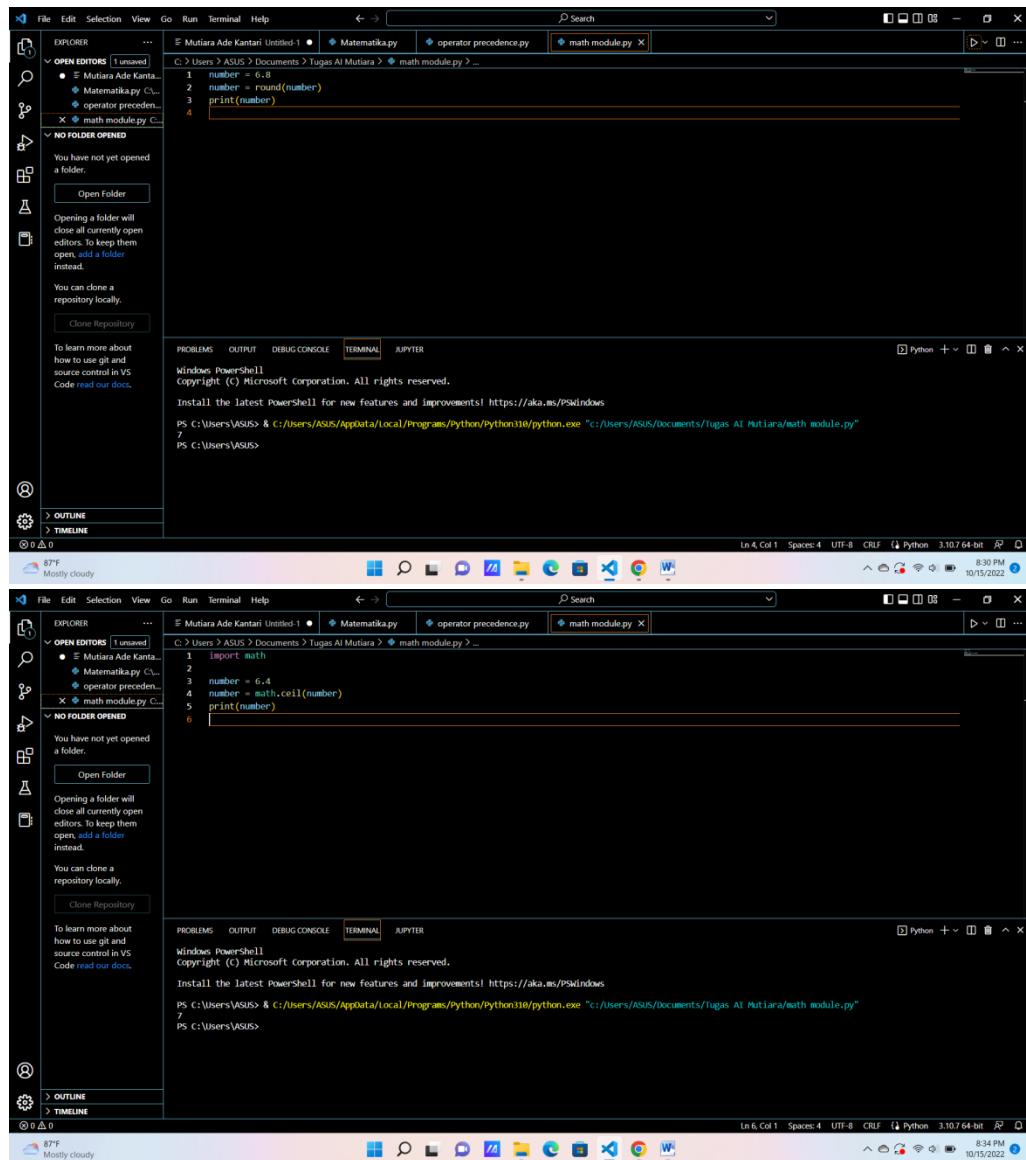
- Terminal:** Displays the same Python code and output as the top window.
- Output:** Shows the command being run in a Windows PowerShell terminal:

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator precedence.py"
896
PS C:\Users\ASUS>
```

- Status Bar:** Shows "Ln 1, Col 19" and "Python 3.10.7 64-bit".

Both windows also show the VS Code interface with the Explorer, Search, and Terminal tabs selected. The status bar at the bottom of each window displays the current file path, line number, column number, encoding, and Python version.

6. Math module



The image shows two side-by-side screenshots of Microsoft Visual Studio Code (VS Code) running on a Windows operating system. Both screens display the same code editor interface with a dark theme.

Code Editor Content:

```
number = 6.8
number = round(number)
print(number)
```

Terminal Output (Top Window):

```
PS C:\Users\ASUS> & c:/Users/ASUS/AppData/local/programs/python/python310/python.exe "c:/users/ASUS/Documents/Tugas AI Mutiara/math module.py"
7
PS C:\Users\ASUS>
```

Terminal Output (Bottom Window):

```
import math
number = 6.4
number = math.ceil(number)
print(number)
```

System Status Bar:

Both windows show the status bar at the bottom with the following information:

- Ln 4, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
- 8:30 PM 10/15/2022