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## Tugas ke – 6

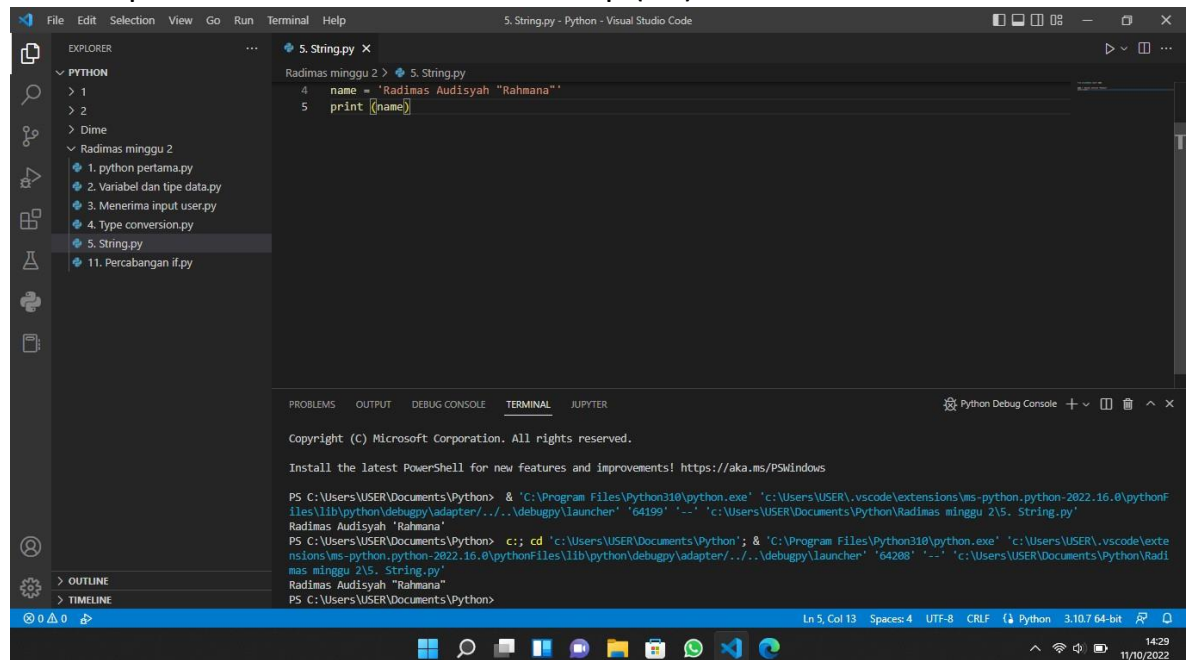
### PY 2

Tema :

- String
- Formatted string
- String method
- Matematika
- Operator precedence
- Math module

#### 1. String

Menampilkan nama didalam tanda kutip (" ")

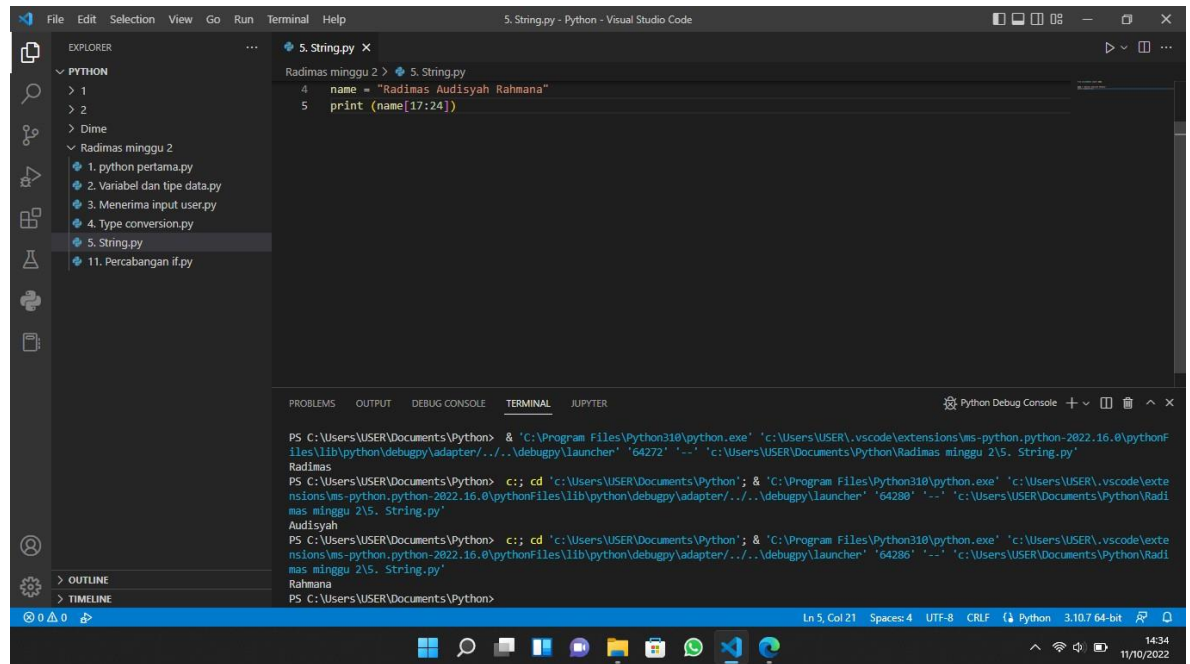


The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a project named 'Radimas minggu 2' with several Python files. The file '5. String.py' is selected and open in the editor. The code in the editor is as follows:

```
Radimas minggu 2 > 5. String.py
4 name = 'Radimas Audisyah "Rahmana"'
5 print (name)
```

The Output panel at the bottom shows the execution of the script, displaying the output: 'Radimas Audisyah "Rahmana"'. The status bar at the bottom indicates the file is at line 5, column 13, using UTF-8 encoding and CRLF line endings.

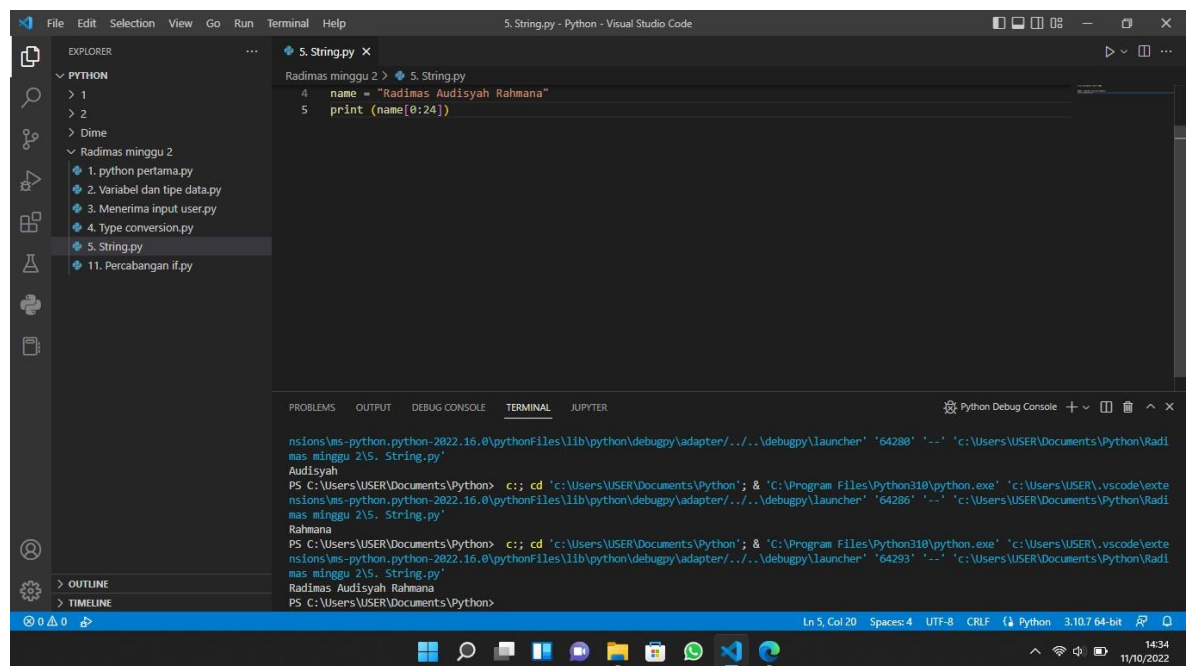
## Menampilkan beberapa karakter dari nama



The screenshot shows the Visual Studio Code interface with a Python file named `5. String.py` open. The Explorer sidebar on the left shows a project structure with a `PYTHON` folder containing several files, including `5. String.py`. The main editor displays the following code:

```
Radimas minggu 2 > 5. String.py
4 name = "Radimas Audisyah Rahmana"
5 print (name[17:24])
```

The TERMINAL panel at the bottom shows the execution of the script. The command prompt is `PS C:\Users\USER\Documents\Python>`. The first command is `& 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64272' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Radimas`. The second command is `c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64280' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Audisyah`. The third command is `c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64286' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Rahmana`. The status bar at the bottom indicates the current line is 5, column 21, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python 3.10.7 64-bit.

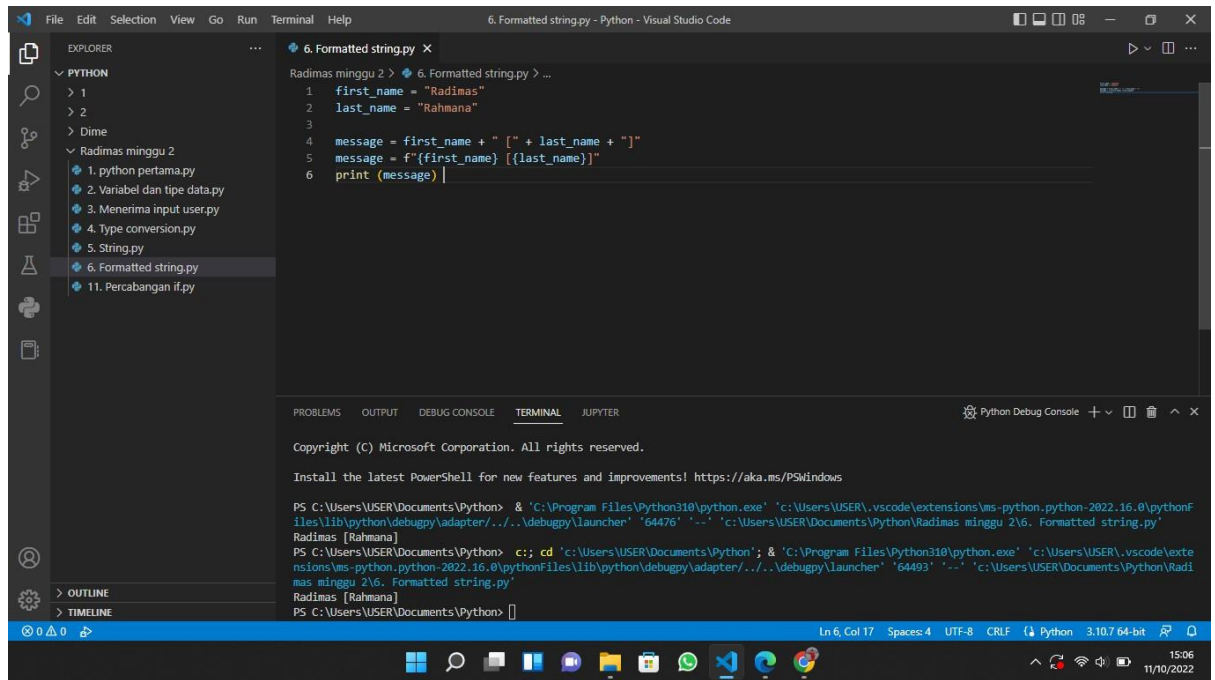


The screenshot shows the Visual Studio Code interface with a Python file named `5. String.py` open. The Explorer sidebar on the left shows a project structure with a `PYTHON` folder containing several files, including `5. String.py`. The main editor displays the following code:

```
Radimas minggu 2 > 5. String.py
4 name = "Radimas Audisyah Rahmana"
5 print (name[0:24])
```

The TERMINAL panel at the bottom shows the execution of the script. The command prompt is `PS C:\Users\USER\Documents\Python>`. The first command is `& 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64280' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Radimas`. The second command is `c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64286' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Audisyah`. The third command is `c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64293' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\5. String.py'`, which outputs `Rahmana`. The status bar at the bottom indicates the current line is 5, column 20, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python 3.10.7 64-bit.

## 2. Formatted string



The screenshot shows the Visual Studio Code interface with a Python file named '6. Formatted string.py'. The Explorer panel on the left shows a project structure with files like '1. python pertama.py', '2. Variabel dan tipe data.py', '3. Menerima input user.py', '4. Type conversion.py', '5. String.py', and '6. Formatted string.py'. The main editor displays the following code:

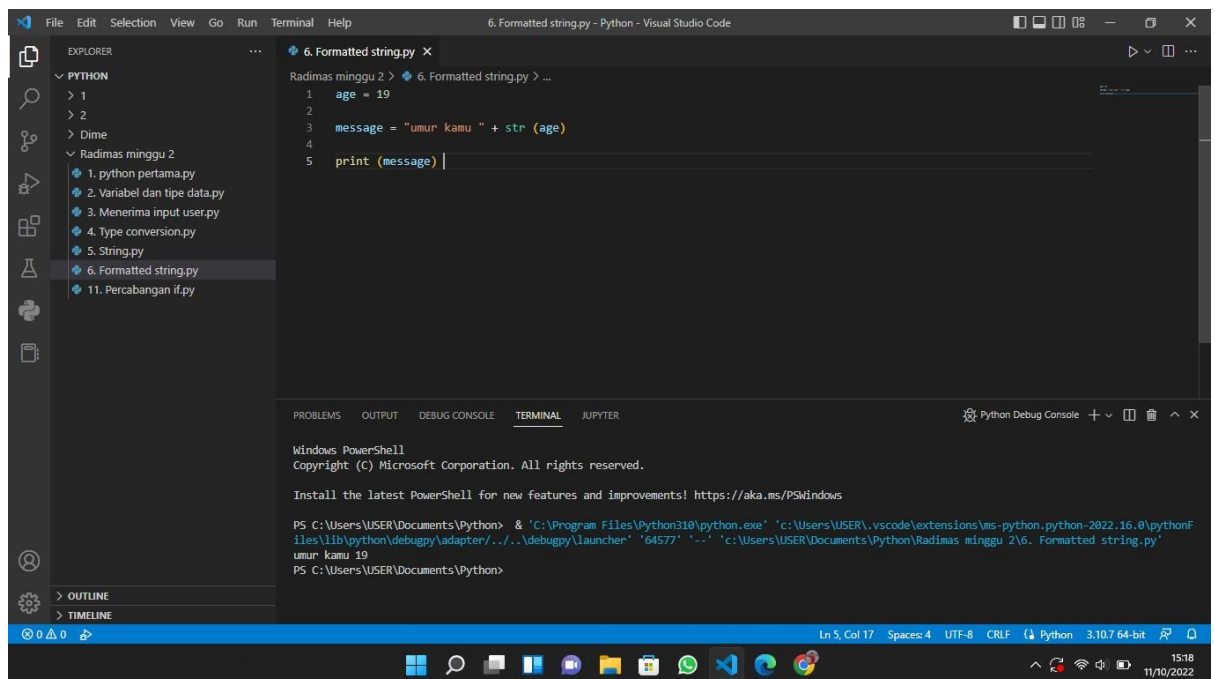
```
Radimas minggu 2 > 6. Formatted string.py > ...
1 first_name = "Radimas"
2 last_name = "Rahmana"
3
4 message = first_name + " [" + last_name + "]"
5 message = f"{first_name} [{last_name}]"
6 print (message) |
```

The Terminal panel at the bottom shows the output of the script:

```
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PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64476' '-.' 'c:\Users\USER\Documents\Python\Radimas minggu 2\6. Formatted string.py'
Radimas [Rahmana]
PS C:\Users\USER\Documents\Python> c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64493' '-.' 'c:\Users\USER\Documents\Python\Radimas minggu 2\6. Formatted string.py'
Radimas [Rahmana]
PS C:\Users\USER\Documents\Python> |
```



The screenshot shows the Visual Studio Code interface with a Python file named '6. Formatted string.py'. The Explorer panel on the left shows a project structure with files like '1. python pertama.py', '2. Variabel dan tipe data.py', '3. Menerima input user.py', '4. Type conversion.py', '5. String.py', and '6. Formatted string.py'. The main editor displays the following code:

```
Radimas minggu 2 > 6. Formatted string.py > ...
1 age = 19
2
3 message = "umur kamu " + str (age)
4
5 print (message) |
```

The Terminal panel at the bottom shows the output of the script:

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

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PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64577' '-.' 'c:\Users\USER\Documents\Python\Radimas minggu 2\6. Formatted string.py'
umur kamu 19
PS C:\Users\USER\Documents\Python>
```

The screenshot shows the Visual Studio Code interface with a Python file named '6. Formatted string.py' open. The Explorer sidebar on the left shows a project structure with a 'PYTHON' folder containing several files, including '6. Formatted string.py' which is currently selected. The main editor area displays the following Python code:

```
Radimas minggu 2 > 6. Formatted string.py > ...
1  age = 19
2
3  message = f"umur kamu {age}."
4
5  print (message)
```

Below the editor, the TERMINAL panel is active, showing the output of running the script. It includes the standard Windows PowerShell copyright notice and the execution of the Python script, which prints 'umur kamu 19'.

```
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\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\...\.debugpy\launcher' '64577' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\6. Formatted string.py'
umur kamu 19
PS C:\Users\USER\Documents\Python> c:; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\...\.debugpy\launcher' '64586' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\6. Formatted string.py'
umur kamu 19
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the cursor is at line 5, column 17, with 4 spaces, in UTF-8 encoding with CRLF line endings. The Python version is 3.10.7 64-bit.

### 3. String method

The screenshot shows the Visual Studio Code interface with a Python file named '7. String method.py' open. The Explorer sidebar on the left shows a project structure with a 'PYTHON' folder containing several files, including '7. String method.py' which is currently selected. The main editor area displays the following Python code:

```
Radimas minggu 2 > 7. String method.py > ...
1  course = "Belajar Python bareng Pak Herfandi"
2  length = len (course)
3  language = "Python"
4  print (length)
5  print (course)
6  print (course.upper())
7  print (language in course)
```

Below the editor, the TERMINAL panel is active, showing the output of running the script. It includes the standard Windows PowerShell copyright notice and the execution of the Python script, which prints the length of the string, the string itself, the string in uppercase, and a boolean value indicating if 'Python' is in the string.

```
Windows PowerShell
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PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\...\.debugpy\launcher' '64847' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\7. String method.py'
34
Belajar Python bareng Pak Herfandi
BELAJAR PYTHON BARENG PAK HERFANDI
True
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the cursor is at line 7, column 28, with 4 spaces, in UTF-8 encoding with CRLF line endings. The Python version is 3.10.7 64-bit.

```
File Edit Selection View Go Run Terminal Help
7.String method.py - Python - Visual Studio Code

EXPLORER
PYTHON
  > 1
  > 2
  > Dime
  Radimas minggu 2
    1.python pertama.py
    2. Variabel dan tipe data.py
    3. Menerima input user.py
    4. Type conversion.py
    5. String.py
    6. Formatted string.py
    7.String method.py
    8. Matematika.py
    11. Percabangan if.py

7.String method.py
Radimas minggu 2 > 7.String method.py > ...
1 course = "Belajar Python bareng Pak Herfandi"
2 length = len (course)
3 language = "Javascript"
4 print (length)
5 print (course)
6 print (course.upper())
7 print (language in course)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python Debug Console
34
Belajar Python bareng Pak Herfandi
BELAJAR PYTHON BARENG PAK HERFANDI
True
PS C:\Users\USER\Documents\Python> c:; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64856' '-' 'c:\Users\USER\Documents\Python\Radimas minggu 2\7. String method.py'
34
Belajar Python bareng Pak Herfandi
BELAJAR PYTHON BARENG PAK HERFANDI
False
PS C:\Users\USER\Documents\Python>
```

## 4. Matematika

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

EXPLORER
PYTHON
  > 1
  > 2
  > Dime
  Radimas minggu 2
    1.python pertama.py
    2. Variabel dan tipe data.py
    3. Menerima input user.py
    4. Type conversion.py
    5. String.py
    6. Formatted string.py
    7.String method.py
    8. Matematika.py
    11. Percabangan if.py

8. Matematika.py
Radimas minggu 2 > 8. Matematika.py > ...
1 x = 20
2 y = 4
3
4 print (x + y)
5 print (x - y)
6 print (x * y)
7 print (x ** y)
8 print (x / y)
9 print (x // y)
10 print (x % y)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python Debug Console
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\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '64989' '-' 'c:\Users\USER\Documents\Python\Radimas minggu 2\8. Matematika.py'
24
16
80
160000
5.0
0
PS C:\Users\USER\Documents\Python>
```



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

EXPLORER
PYTHON
  > 1
  > 2
  > Dime
  Radimas minggu 2
    1. python pertama.py
    2. Variabel dan tipe data.py
    3. Menerima input user.py
    4. Type conversion.py
    5. String.py
    6. Formatted string.py
    7. String method.py
    8. Matematika.py
    11. Percabangan if.py

8. Matematika.py X
Radimas minggu 2 > 8. Matematika.py > ...
1 x = 20
2 x = x + 15
3
4 print (x)
5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python Debug Console + - [ ] [x] [^] [v] [x]

24
16
80
160000
5.0
5
0
35

PS C:\Users\USER\Documents\Python> c:; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '65002' '-.' 'c:\Users\USER\Documents\Python\Radimas minggu 2\8. Matematika.py'
PS C:\Users\USER\Documents\Python>
```

## 5. Operator precedence

```
File Edit Selection View Go Run Terminal Help
9. operator presedance.py - Python - Visual Studio Code

EXPLORER
PYTHON
  > 1
  > 2
  > Dime
  Radimas minggu 2
    1. python pertama.py
    2. Variabel dan tipe data.py
    3. Menerima input user.py
    4. Type conversion.py
    5. String.py
    6. Formatted string.py
    7. String method.py
    8. Matematika.py
    9. operator presedance.py
    10. Math module.py
    11. Percabangan if.py
    12. Operator perbandingan.py
    13. Operator logika.py
    14. Perulangan while.py
    15. Game tebak angka.py
    16. Aplikasi kalkulator.py

9. operator presedance.py X
Radimas minggu 2 > 9. operator presedance.py > ...
1 number = 10 ** 2 + (25 - 12) // 2
2
3 print (number)
4
5 #tanda kurang
6 #perpangkatan
7 #perkalian dan pembagian
8 #penjumlahan dan pengurangan

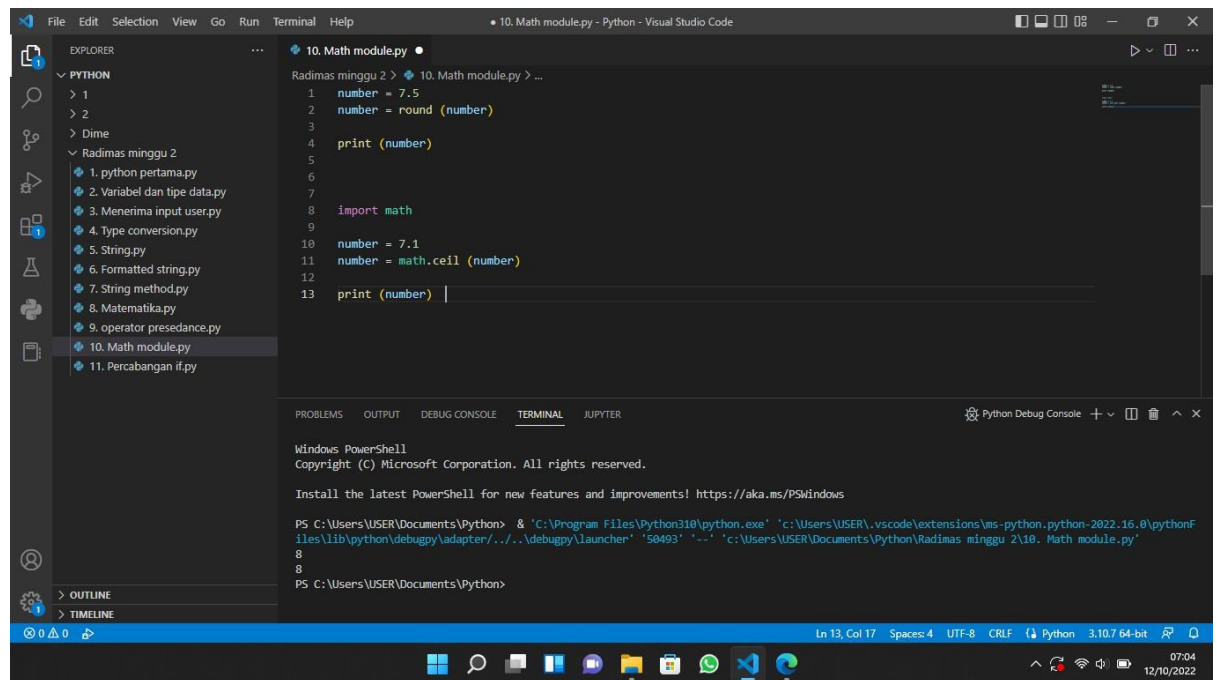
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER VARIABLES
Python + - [ ] [x] [^] [v] [x]

Windows PowerShell
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PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Radimas minggu 2/9. operator presedance.py"
106
PS C:\Users\USER\Documents\Python>
```

## 6. Math module



The screenshot shows the Visual Studio Code interface with a Python file named '10. Math module.py' open. The file contains the following code:

```
1 number = 7.5
2 number = round (number)
3
4 print (number)
5
6
7
8 import math
9
10 number = 7.1
11 number = math.ceil (number)
12
13 print (number)
```

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

```
Windows PowerShell
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PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '58493' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\10. Math module.py'
8
8
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the current line and column (Ln 13, Col 17), the number of spaces (4), the encoding (UTF-8), the line ending (CRLF), the Python version (3.10.7 64-bit), and the date and time (07:04 12/10/2022).