

Nama : Sulastri

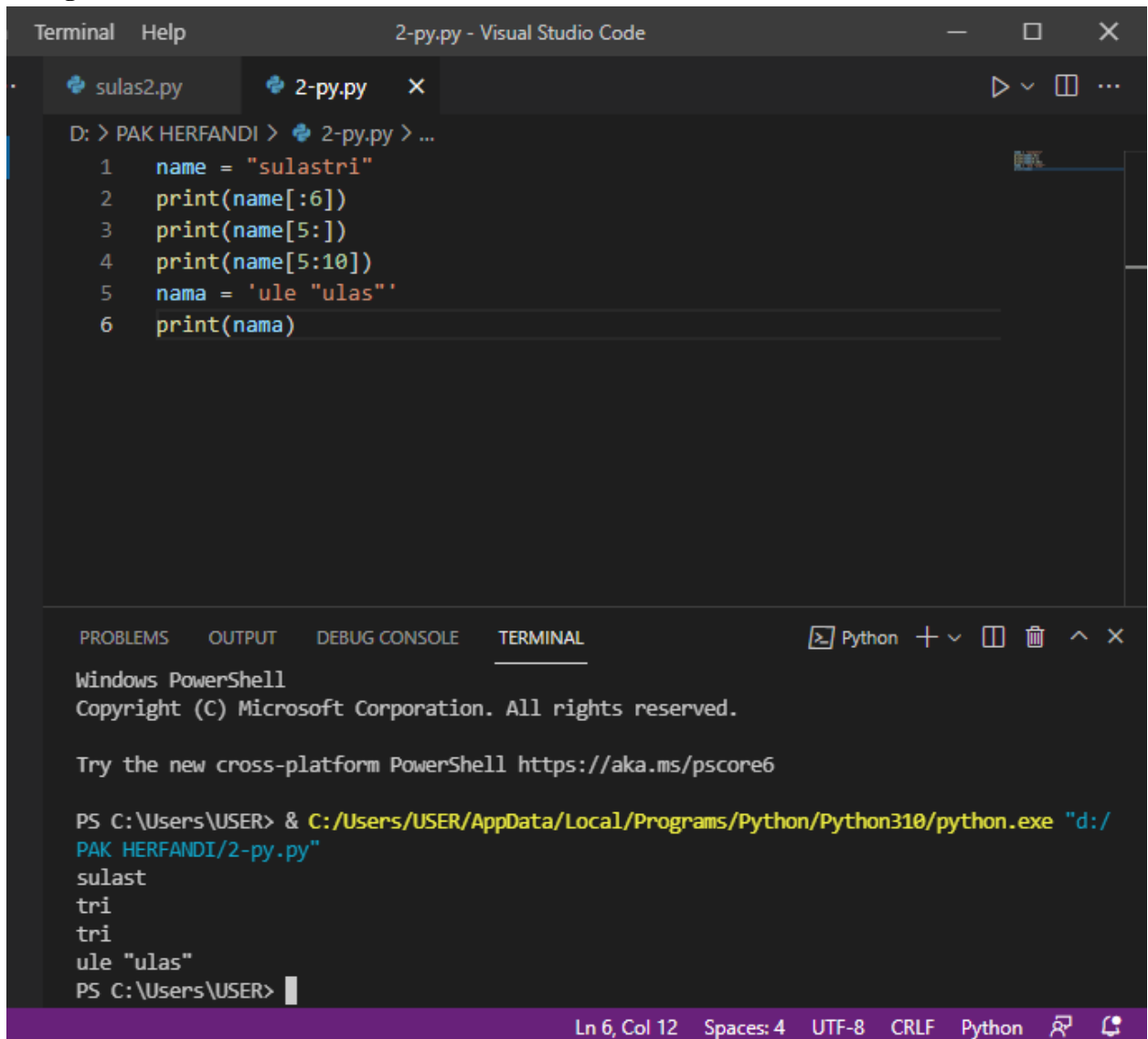
Nim : 20.01.013.015

Mk : Kecerdasan Buatan

Kelas : Teknik Informatika /3B

2.python-2

1. String



The screenshot displays the Visual Studio Code interface. The editor window shows a file named `2-py.py` with the following Python code:

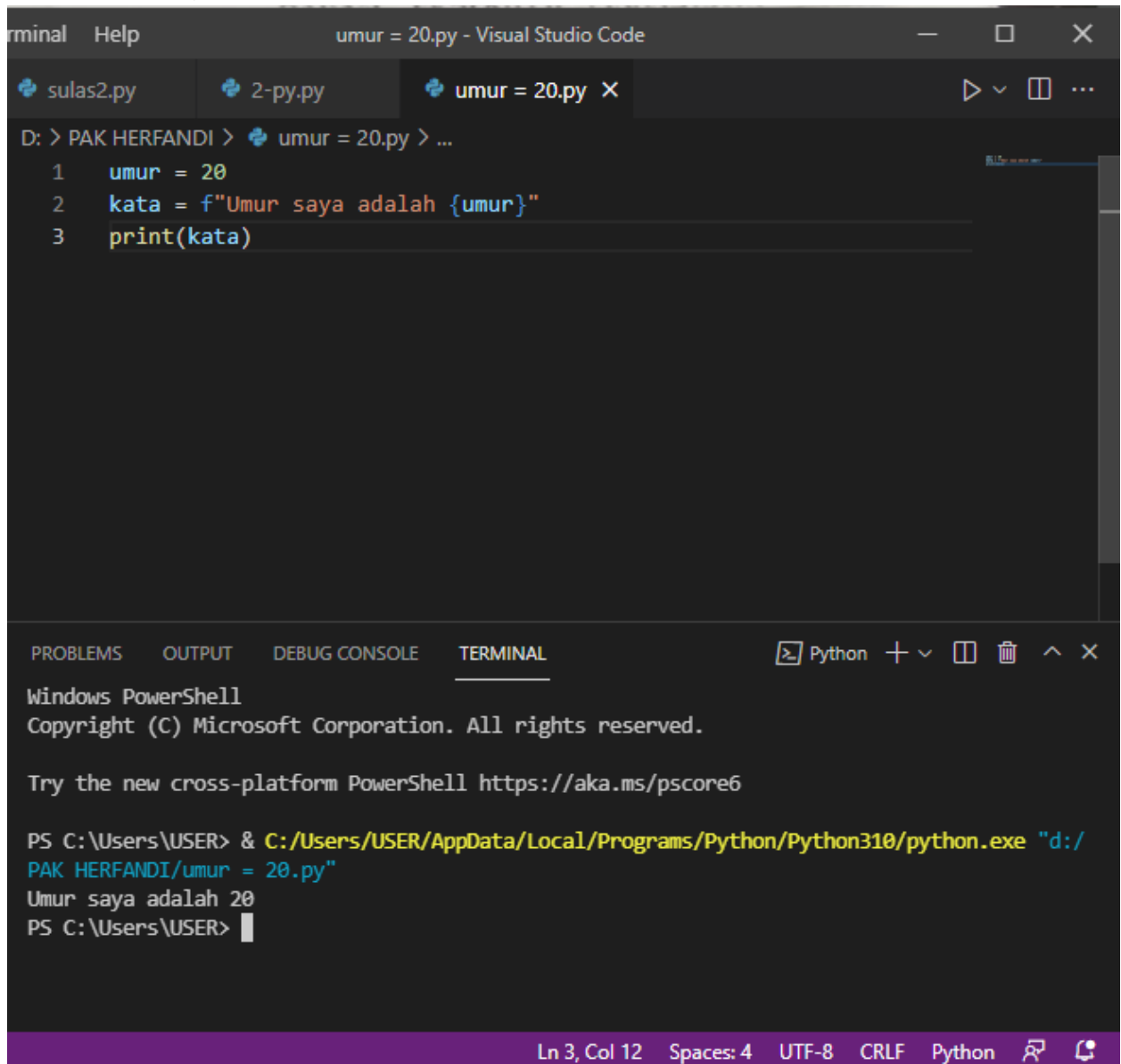
```
1 name = "sulastri"
2 print(name[:6])
3 print(name[5:])
4 print(name[5:10])
5 nama = 'ule "ulas"'
6 print(nama)
```

The bottom panel shows the **TERMINAL** tab, which contains the output of running the script. The terminal prompt is `D: > PAK HERFANDI > 2-py.py > ...`. The output is:

```
sulast
tri
tri
ule "ulas"
```

The status bar at the bottom indicates the current position is **Ln 6, Col 12**, with **Spaces: 4**, **UTF-8** encoding, **CRLF** line endings, and the **Python** interpreter selected.

2. Formatted String



The image shows a Visual Studio Code window with a file explorer at the top containing three files: `sulas2.py`, `2-py.py`, and `umur = 20.py`. The `umur = 20.py` file is open in the editor, showing the following code:

```
1 umur = 20
2 kata = f"Umur saya adalah {umur}"
3 print(kata)
```

Below the editor is a terminal window titled "Terminal" with a Python icon. It shows the execution of the script using the command prompt (PS). The output of the script is "Umur saya adalah 20".

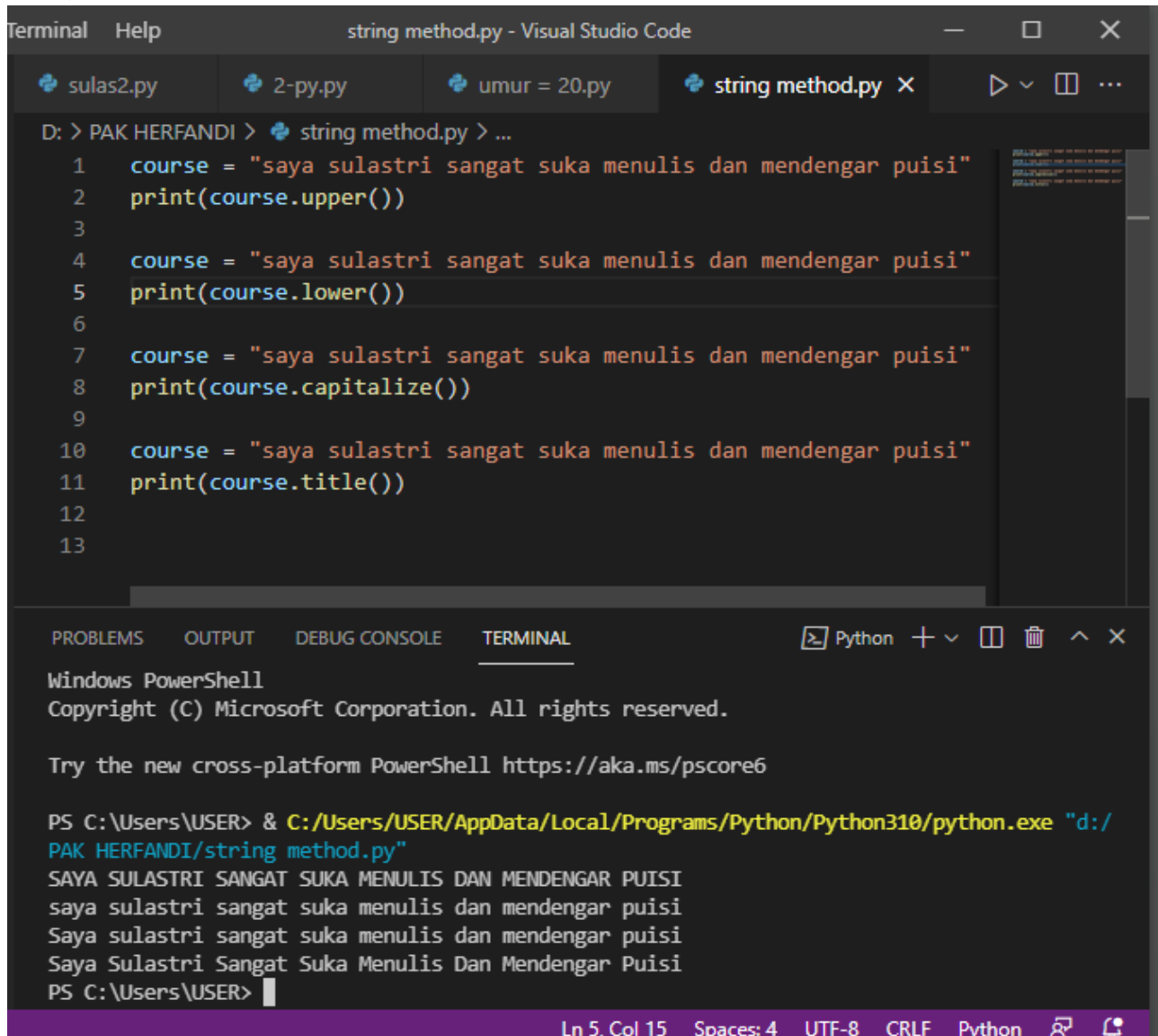
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/PAK HERFANDI/umur = 20.py"
Umur saya adalah 20
PS C:\Users\USER>
```

The status bar at the bottom indicates the current position is Line 3, Column 12, with 4 spaces, using UTF-8 encoding, CRLF line endings, and the Python interpreter.

3. String Method



The image shows a Visual Studio Code window with a file named 'string method.py' open. The code in the editor defines a string 'course' and demonstrates four string methods: .upper(), .lower(), .capitalize(), and .title(). Below the editor, the 'TERMINAL' panel shows the command to run the script using Python 3.10, followed by the output of the script, which displays the string in its original case and then in uppercase, lowercase, title case, and sentence case.

```
Terminal Help string method.py - Visual Studio Code

sulas2.py 2-py.py umur = 20.py string method.py X

D: > PAK HERFANDI > string method.py > ...
1 course = "saya sulastrisangat suka menulis dan mendengar puisi"
2 print(course.upper())
3
4 course = "saya sulastrisangat suka menulis dan mendengar puisi"
5 print(course.lower())
6
7 course = "saya sulastrisangat suka menulis dan mendengar puisi"
8 print(course.capitalize())
9
10 course = "saya sulastrisangat suka menulis dan mendengar puisi"
11 print(course.title())
12
13

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python + - [ ] [X] ^ X

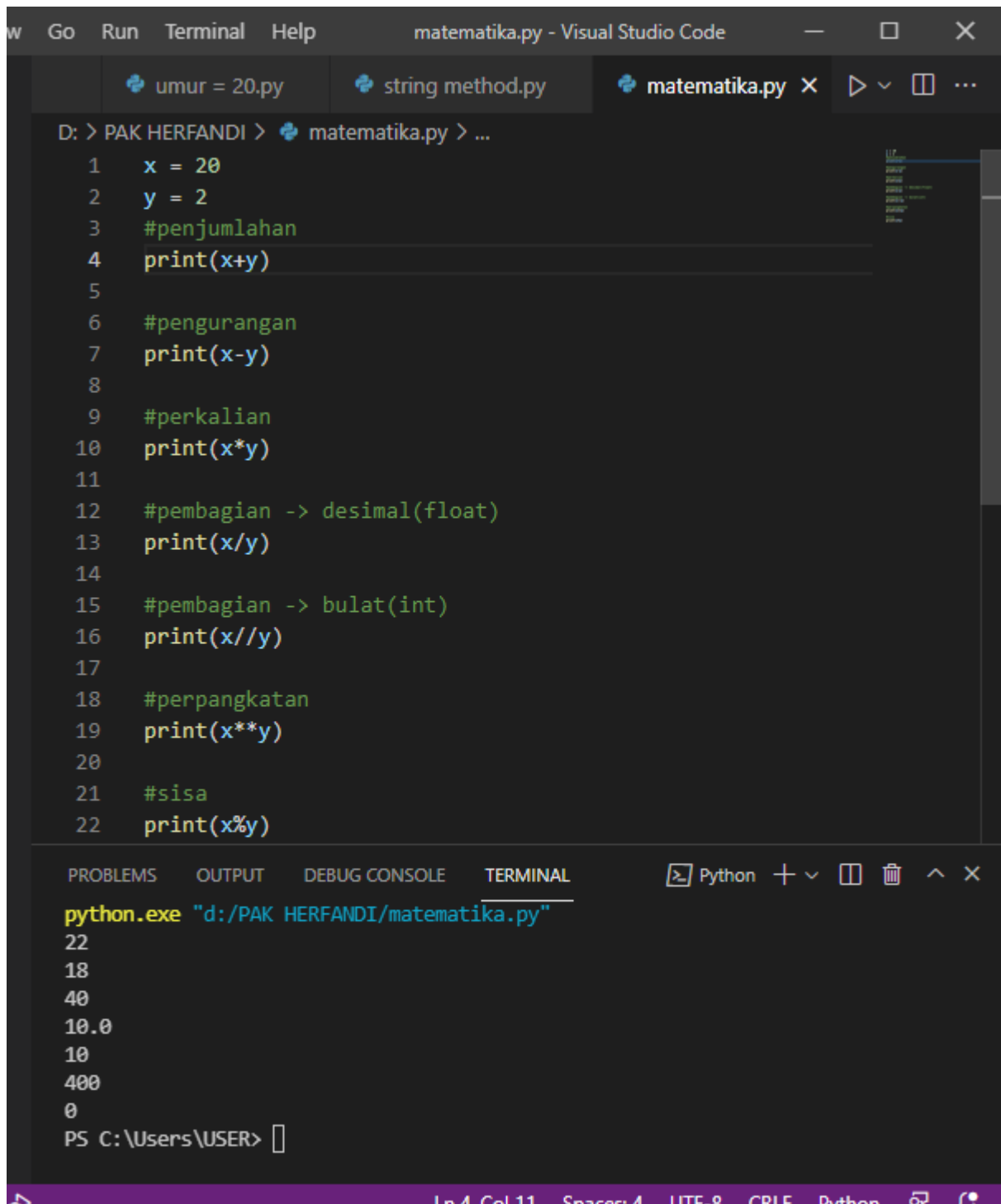
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/PAK HERFANDI/string method.py"
SAYA SULASTRI SANGAT SUKA MENULIS DAN MENDENGAR PUISI
saya sulastrisangat suka menulis dan mendengar puisi
Saya sulastrisangat suka menulis dan mendengar puisi
Saya Sulastrisangat Suka Menulis Dan Mendengar Puisi
PS C:\Users\USER>
```

Ln 5, Col 15 Spaces: 4 UTF-8 CRLF Python

4. Matematika



The image shows a Visual Studio Code editor window titled "matematika.py - Visual Studio Code". The editor has three tabs: "umur = 20.py", "string method.py", and "matematika.py". The "matematika.py" tab is active, showing a Python script with the following code:

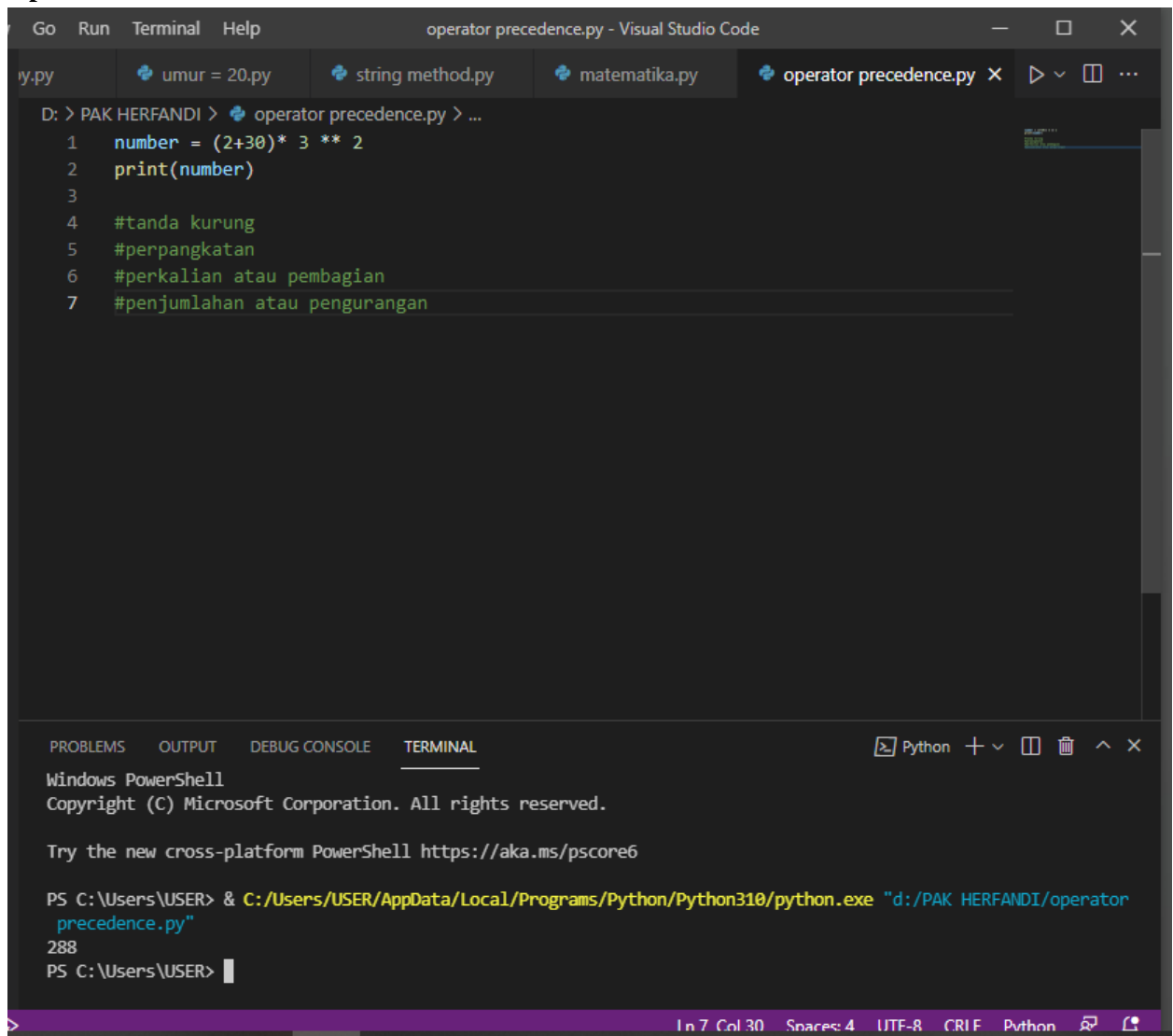
```
1 x = 20
2 y = 2
3 #penjumlahan
4 print(x+y)
5
6 #pengurangan
7 print(x-y)
8
9 #perkalian
10 print(x*y)
11
12 #pembagian -> desimal(float)
13 print(x/y)
14
15 #pembagian -> bulat(int)
16 print(x//y)
17
18 #perpangkatan
19 print(x**y)
20
21 #sisas
22 print(x%y)
```

The bottom of the window shows the "TERMINAL" panel with the following output:

```
python.exe "d:/PAK HERFANDI/matematika.py"
22
18
40
10.0
10
400
0
PS C:\Users\USER>
```

The status bar at the bottom indicates the cursor is at line 4, column 11, with a tab size of 4, UTF-8 encoding, and CRLF line endings. The Python interpreter is set to the default Python 3.8.1.

5. Operator Precedence



The image shows a Visual Studio Code window with the file `operator precedence.py` open. The code in the editor is as follows:

```
D: > PAK HERFANDI > operator precedence.py > ...
1  number = (2+30)* 3 ** 2
2  print(number)
3
4  #tanda kurung
5  #perpangkatan
6  #perkalian atau pembagian
7  #penjumlahan atau pengurangan
```

Below the editor, the `TERMINAL` panel is active, showing the execution of the script. The output is:

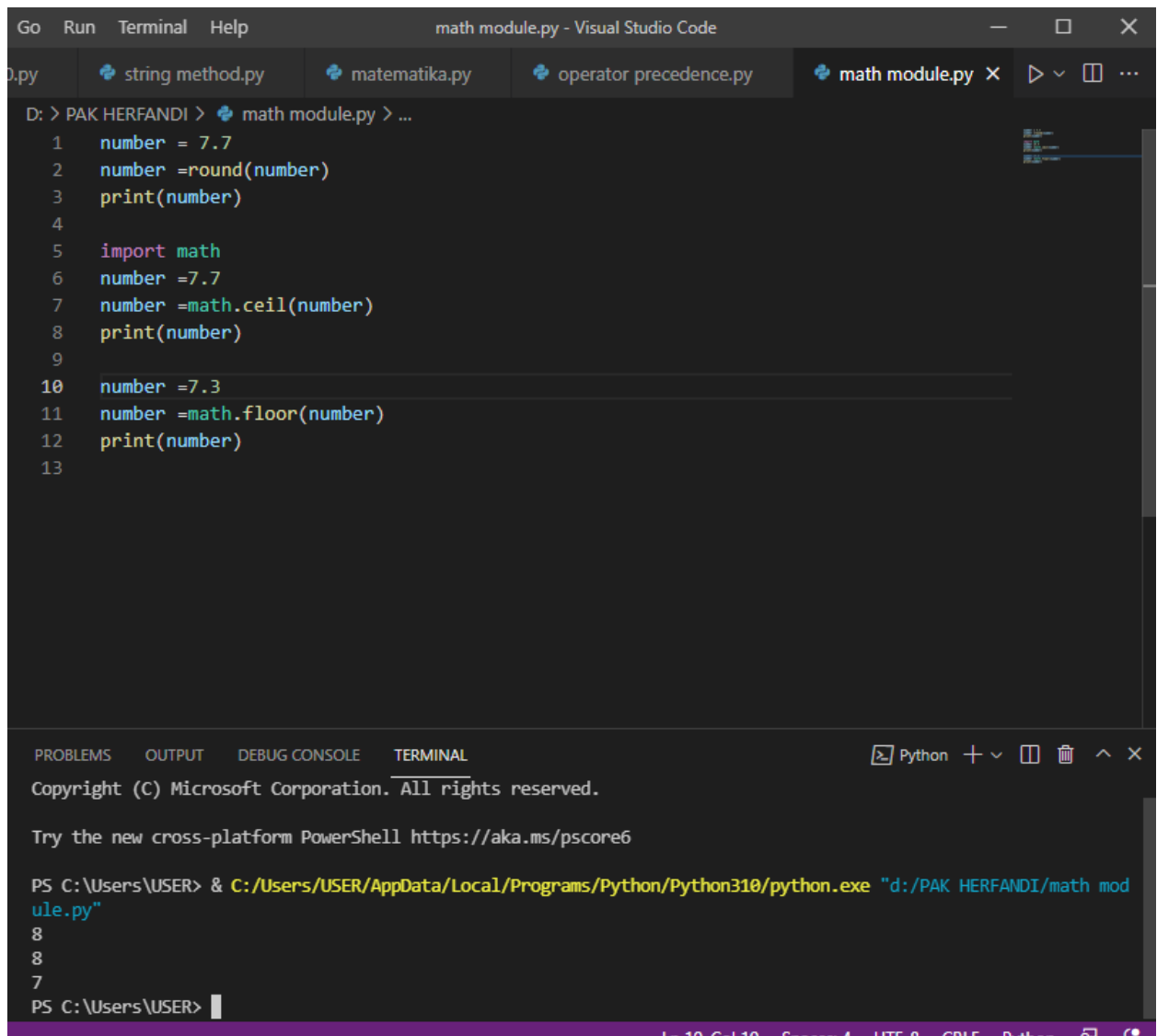
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/PAK HERFANDI/operator
precedence.py"
288
PS C:\Users\USER>
```

The status bar at the bottom indicates the current cursor position is at line 7, column 30, with 4 spaces, using UTF-8 encoding, CR LF line endings, and the Python language mode.

6. Math Module



The image shows a Visual Studio Code editor window with a file named `math module.py`. The code in the editor is as follows:

```
D: > PAK HERFANDI > math module.py > ...
1  number = 7.7
2  number = round(number)
3  print(number)
4
5  import math
6  number = 7.7
7  number = math.ceil(number)
8  print(number)
9
10 number = 7.3
11 number = math.floor(number)
12 print(number)
13
```

Below the editor, the TERMINAL panel is open, showing the command to run the script and its output:

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

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

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/PAK HERFANDI/math module.py"
8
8
7
PS C:\Users\USER>
```

The output of the script is three lines of numbers: 8, 8, and 7, which correspond to the results of `round(7.7)`, `math.ceil(7.7)`, and `math.floor(7.3)` respectively.