

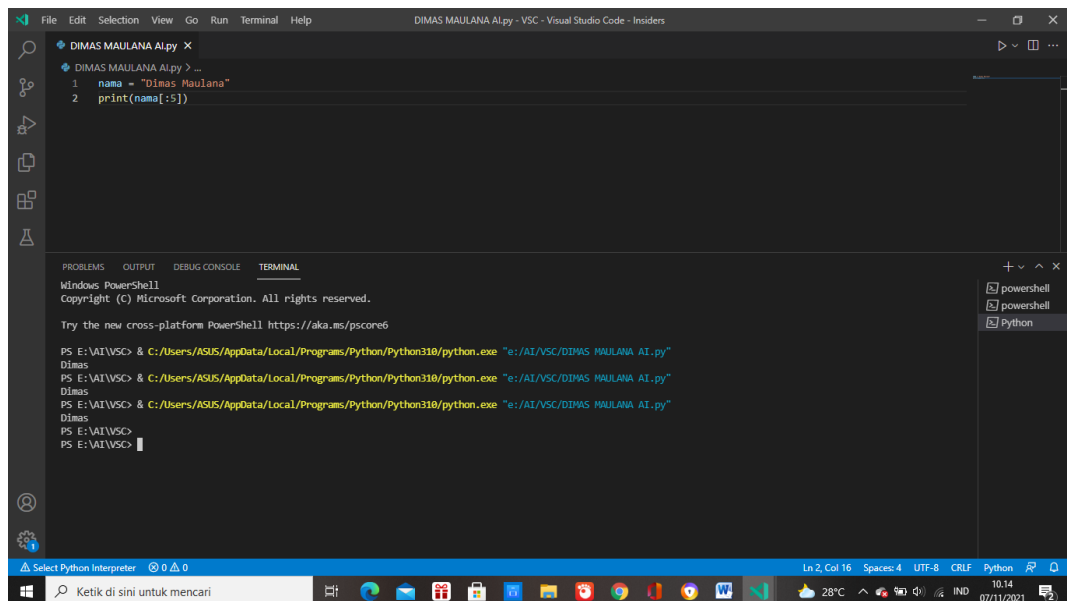
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NIM : 20.01.013.037

MATKUL: ARTIFICIAL INTELLIGENCE

TUGAS : PYTHON-2

1. String

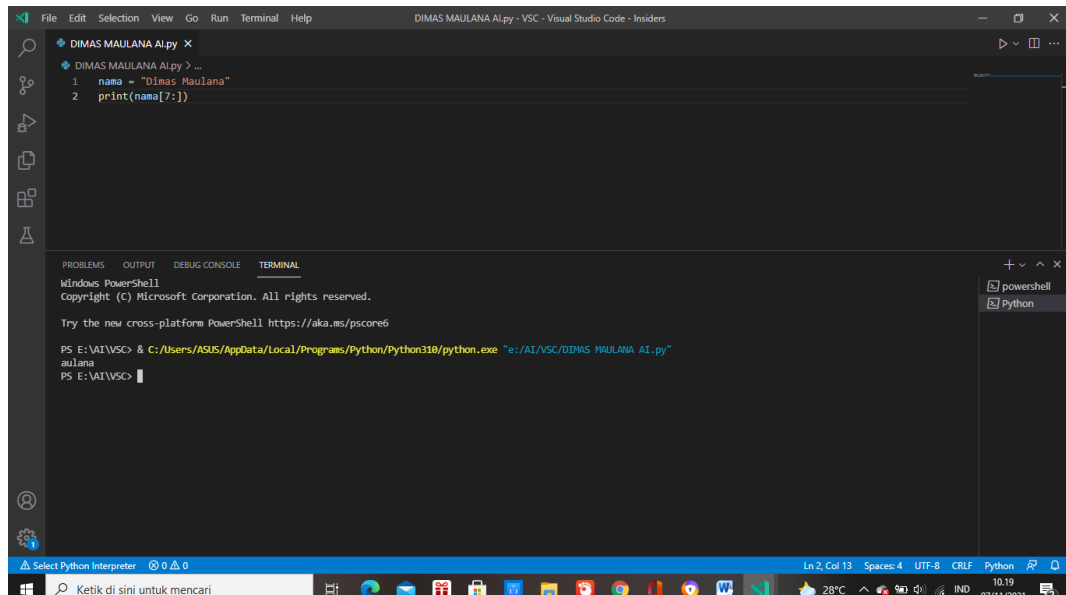


The screenshot shows the Visual Studio Code editor with a file named "DIMAS MAULANA AI.py". The code in the editor is:

```
1 nama = "Dimas Maulana"
2 print(nama[:5])
```

The terminal window at the bottom shows the execution of the script using the Windows PowerShell prompt. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
Dimas
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
Dimas
PS E:\AI\VSC>
```



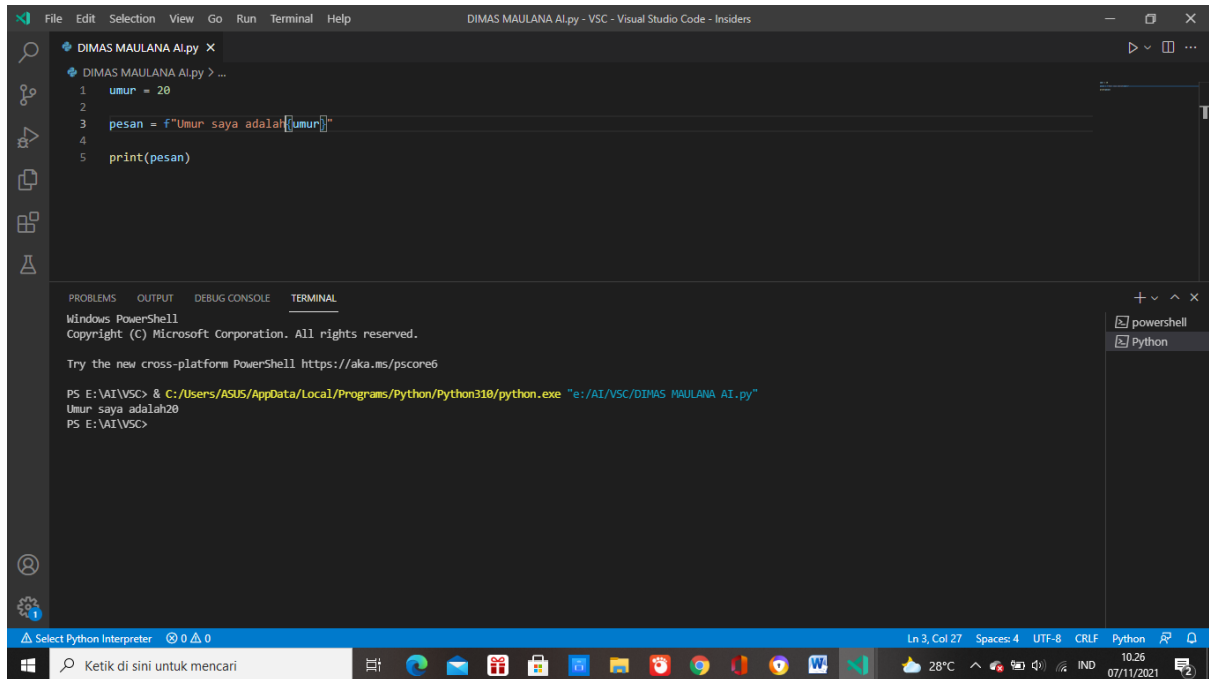
The screenshot shows the Visual Studio Code editor with a file named "DIMAS MAULANA AI.py". The code in the editor is:

```
1 nama = "Dimas Maulana"
2 print(nama[2:])
```

The terminal window at the bottom shows the execution of the script using the Windows PowerShell prompt. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
aulana
PS E:\AI\VSC>
```

2. Formatted String



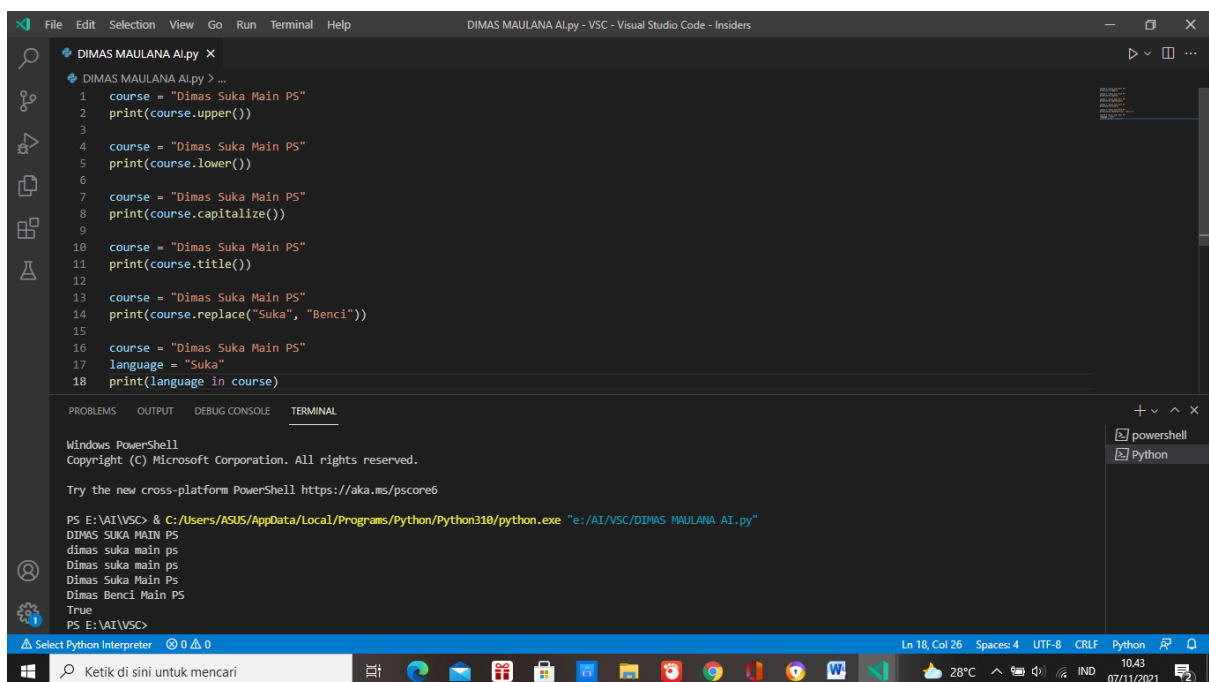
The screenshot shows the Visual Studio Code editor with a file named `DIMAS MAULANA AI.py`. The code in the editor is as follows:

```
1 umur = 20
2
3 pesan = f"Umur saya adalah{umur}"
4
5 print(pesan)
```

The terminal window at the bottom shows the execution of the script using Python 3.10. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
Umur saya adalah20
PS E:\AI\VSC>
```

3. String Method



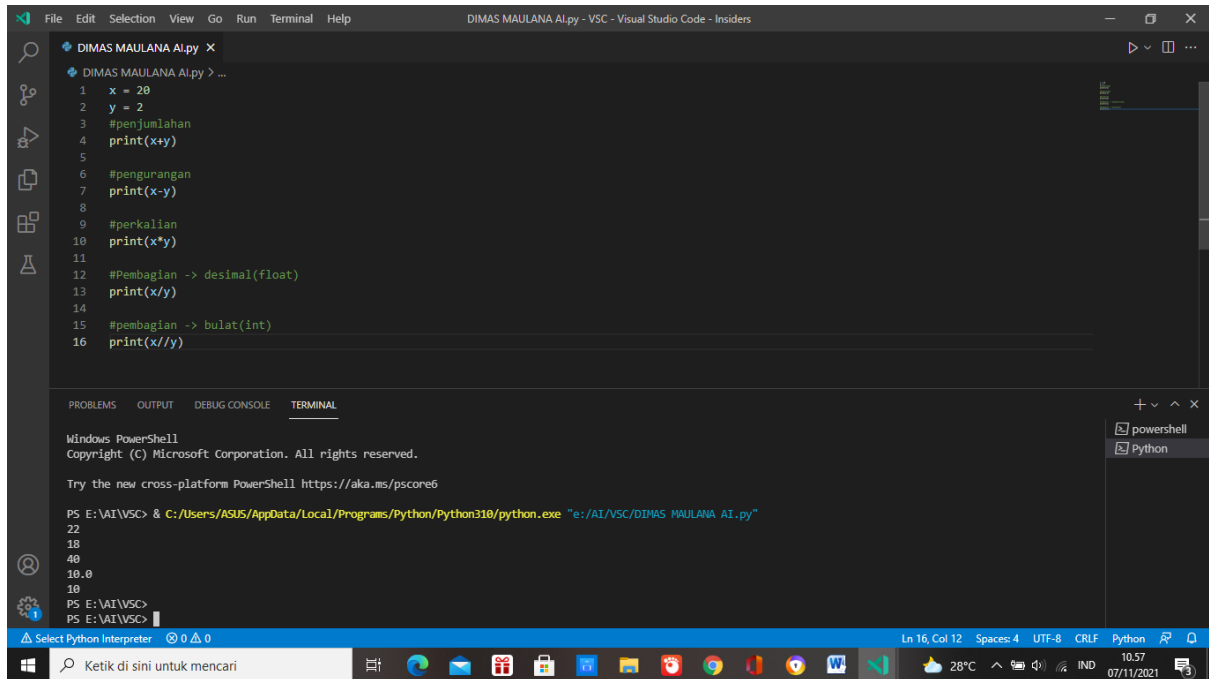
The screenshot shows the Visual Studio Code editor with a file named `DIMAS MAULANA AI.py`. The code in the editor is as follows:

```
1 course = "Dimas Suka Main PS"
2 print(course.upper())
3
4 course = "Dimas Suka Main PS"
5 print(course.lower())
6
7 course = "Dimas Suka Main PS"
8 print(course.capitalize())
9
10 course = "Dimas Suka Main PS"
11 print(course.title())
12
13 course = "Dimas Suka Main PS"
14 print(course.replace("Suka", "Benci"))
15
16 course = "Dimas Suka Main PS"
17 language = "Suka"
18 print(language in course)
```

The terminal window at the bottom shows the execution of the script using Python 3.10. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
DIMAS SUKA MAIN PS
dimas suka main ps
Dimas suka main ps
Dimas Suka Main Ps
Dimas Benci Main PS
True
PS E:\AI\VSC>
```

4. Matematika



The screenshot shows the Visual Studio Code editor with a file named "DIMAS MAULANA Al.py". The code defines variables `x = 20` and `y = 2`, and performs several operations: addition (`print(x+y)`), subtraction (`print(x-y)`), multiplication (`print(x*y)`), and division (`print(x/y)` and `print(x//y)`). Comments indicate the expected output for each operation. The terminal window shows the command to run the script using Python 3.10, and the output matches the code's intent.

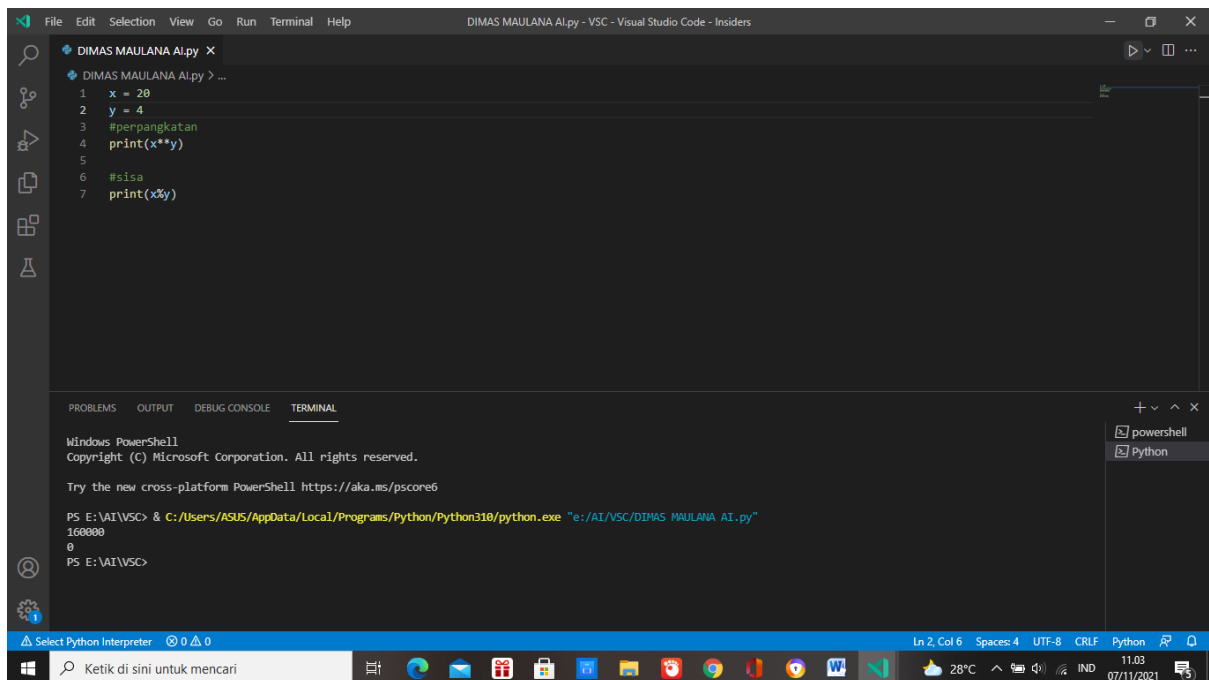
```
File Edit Selection View Go Run Terminal Help
DIMAS MAULANA Al.py - VSC - Visual Studio Code - Insiders

DIMAS MAULANA Al.py X
DIMAS MAULANA Al.py > ...
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)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
22
18
40
10.0
10
PS E:\AI\VSC>
PS E:\AI\VSC>
```



The screenshot shows the Visual Studio Code editor with a file named "DIMAS MAULANA Al.py". The code defines variables `x = 20` and `y = 4`, and performs multiplication (`print(x*y)`) and division (`print(x/y)`). Comments indicate the expected output for each operation. The terminal window shows the command to run the script using Python 3.10, and the output matches the code's intent.

```
File Edit Selection View Go Run Terminal Help
DIMAS MAULANA Al.py - VSC - Visual Studio Code - Insiders

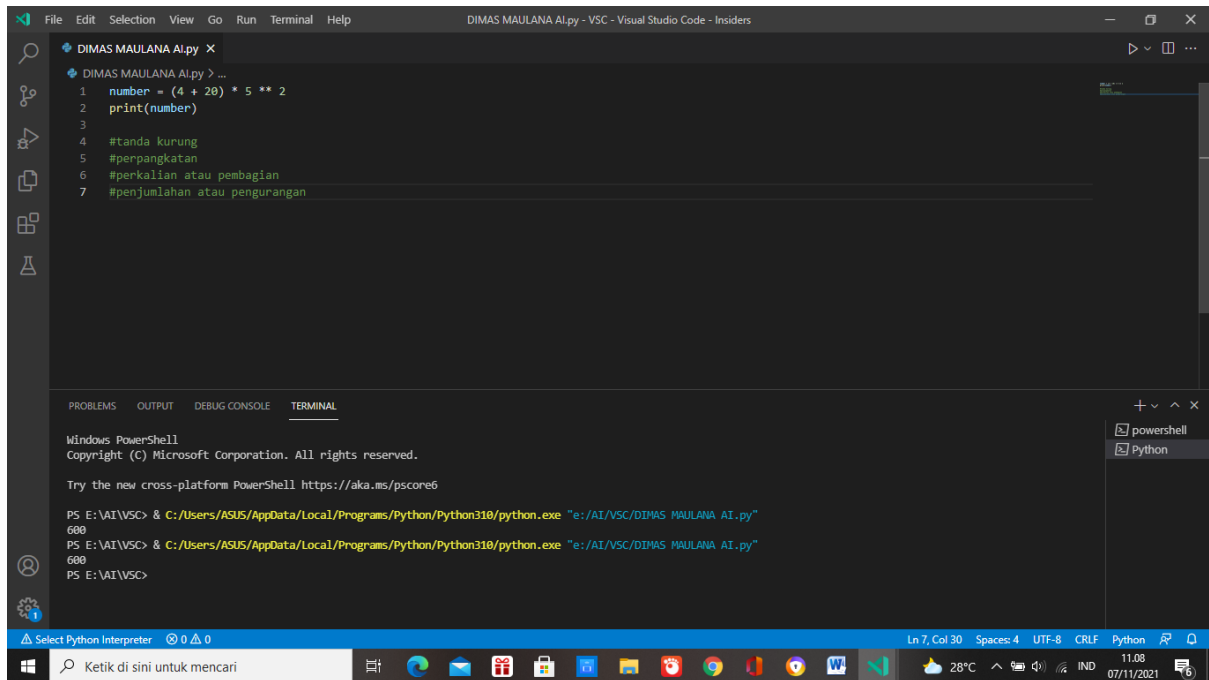
DIMAS MAULANA Al.py X
DIMAS MAULANA Al.py > ...
1 x = 20
2 y = 4
3 #perkalian
4 print(x*y)
5
6 #sisia
7 print(x/y)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
160000
0
PS E:\AI\VSC>
```

5. Operator Precedence



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

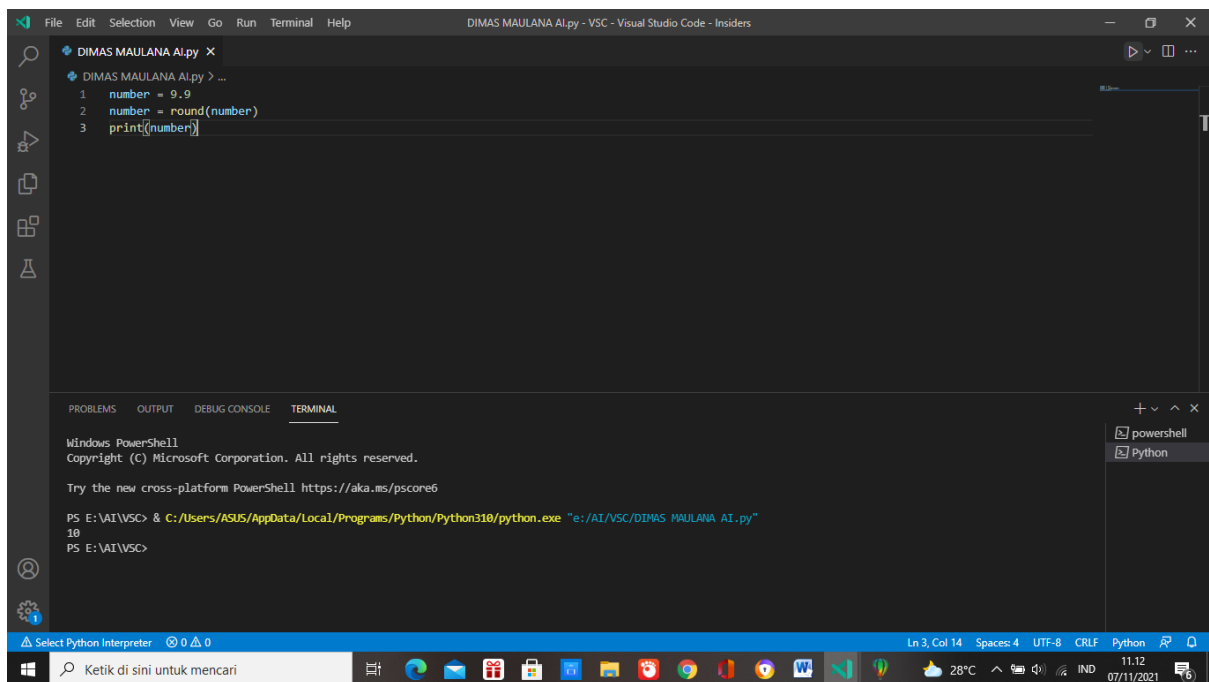
```
1 number = (4 + 20) * 5 ** 2
2 print(number)
3
4 #tanda kurung
5 #perpangkatan
6 #perkalian atau pembagian
7 #penjumlahan atau pengurangan
```

The terminal window at the bottom shows the execution of the script using Python 3.10. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
600
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
600
PS E:\AI\VSC>
```

The status bar at the bottom indicates the file is at line 7, column 30, using UTF-8 encoding and CRLF line endings.

6. Math Module



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

```
1 number = 9.9
2 number = round(number)
3 print(number)
```

The terminal window at the bottom shows the execution of the script using Python 3.10. The output is:

```
PS E:\AI\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/AI/VSC/DIMAS MAULANA AI.py"
10
PS E:\AI\VSC>
```

The status bar at the bottom indicates the file is at line 3, column 14, using UTF-8 encoding and CRLF line endings.

