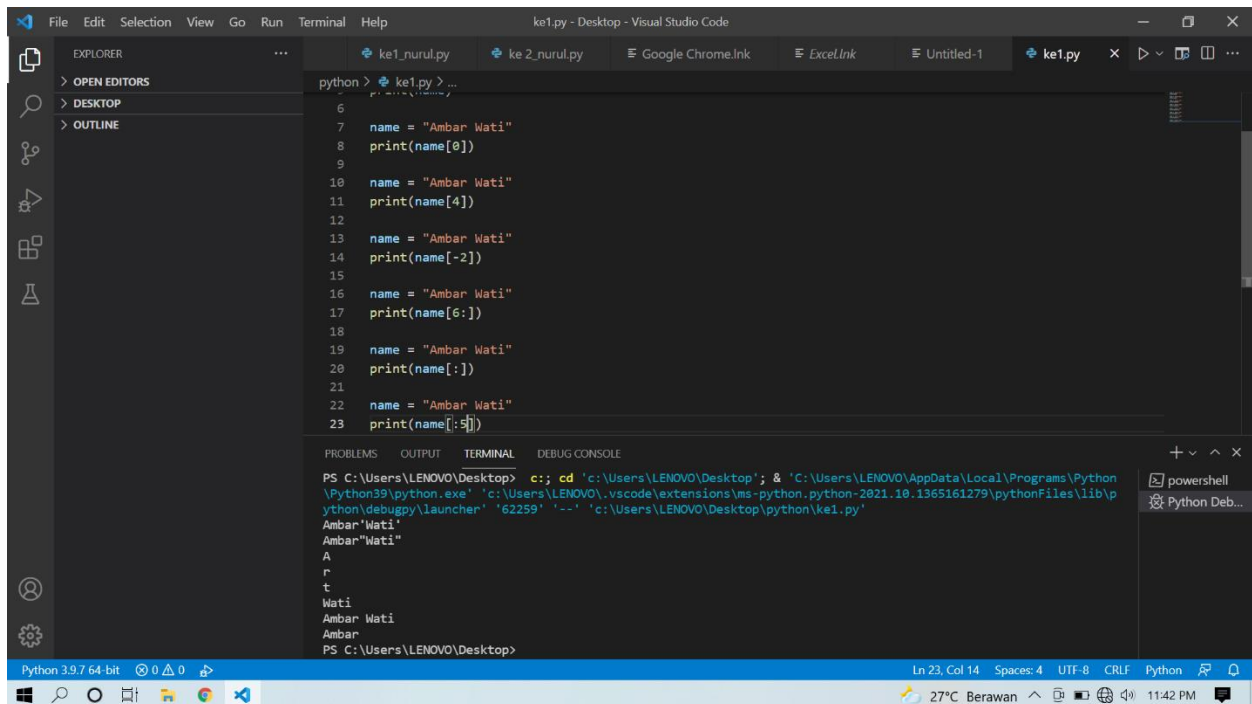


Nama : Ambar Wati
NIM : 20.01.013.001
Kelas : Teknik Informatika (A)
Mata Kuliah : Kecerdasan Buatan (AI)

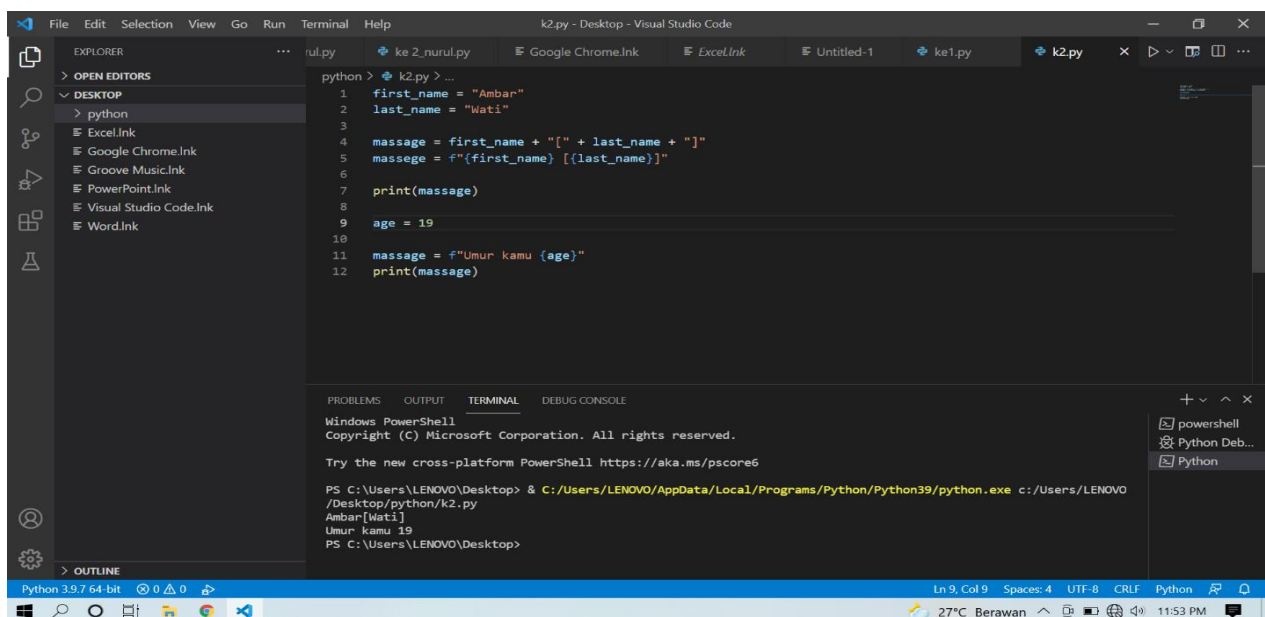
1. String



```
python > ke1.py > ...
6
7 name = "Ambar Wati"
8 print(name[0])
9
10 name = "Ambar Wati"
11 print(name[4])
12
13 name = "Ambar Wati"
14 print(name[-2])
15
16 name = "Ambar Wati"
17 print(name[6:])
18
19 name = "Ambar Wati"
20 print(name[:])
21
22 name = "Ambar Wati"
23 print(name[:5])

PS C:\Users\LENOVO\Desktop> c:: cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.10.1365161279\pythonFiles\lib\p
ython\debugpy\launcher' '62259' '--' 'c:\Users\LENOVO\Desktop\python\ke1.py'
Ambar'Wati'
Ambar'Wati'
A
r
t
Wati
Ambar Wati
Ambar
PS C:\Users\LENOVO\Desktop>
```

2. Formatted String



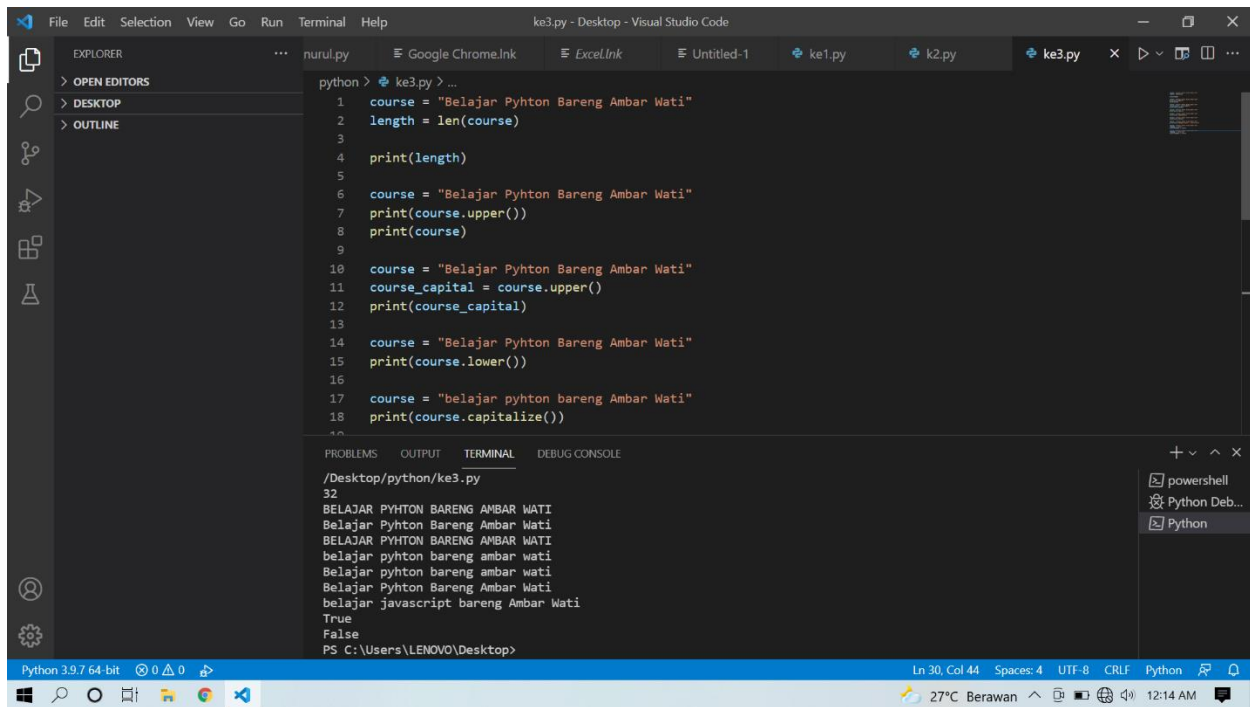
```
python > k2.py > ...
1 first_name = "Ambar"
2 last_name = "Wati"
3
4 message = first_name + "[" + last_name + "]"
5 massege = f"{first_name} [{last_name}]"
6
7 print(message)
8
9 age = 19
10
11 message = f"Umur kamu {age}"
12 print(message)

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

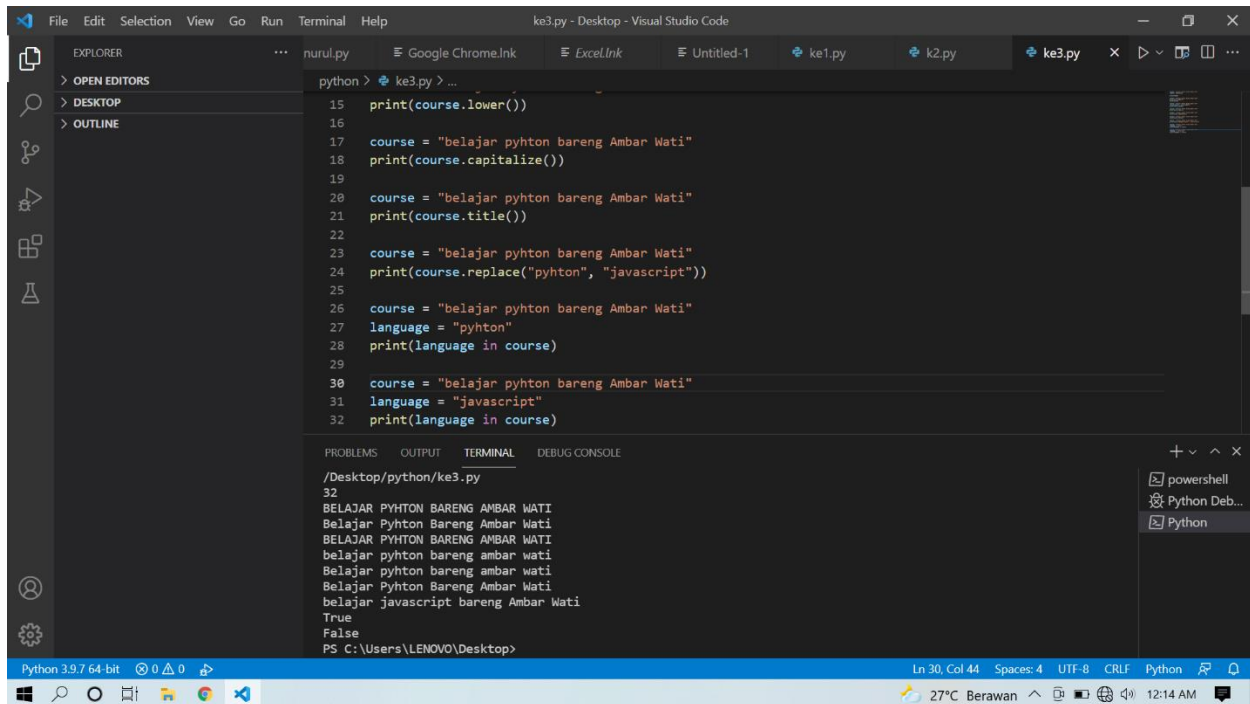
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO
/Desktop/python/k2.py
Ambar[Wati]
Umur kamu 19
PS C:\Users\LENOVO\Desktop>
```

3. String Method

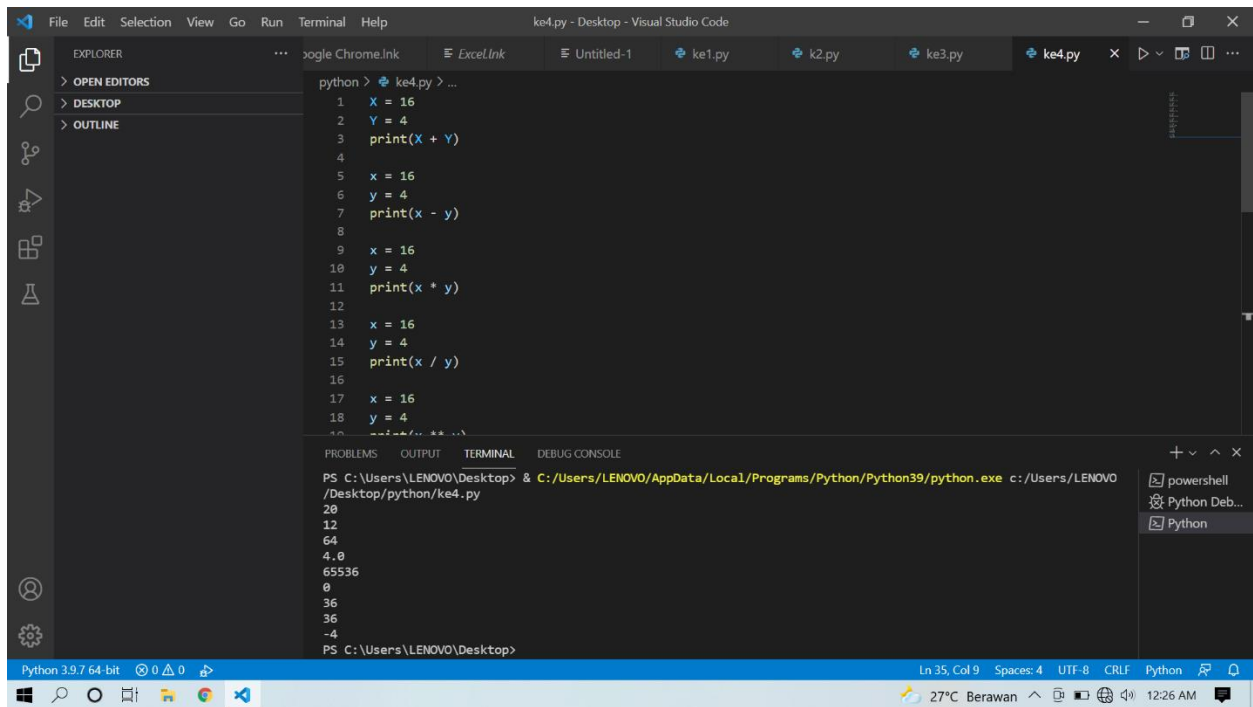


```
python > ke3.py > ...
1 course = "Belajar Pyhton Bareng Ambar Wati"
2 length = len(course)
3
4 print(length)
5
6 course = "Belajar Pyhton Bareng Ambar Wati"
7 print(course.upper())
8 print(course)
9
10 course = "Belajar Pyhton Bareng Ambar Wati"
11 course_capital = course.upper()
12 print(course_capital)
13
14 course = "Belajar Pyhton Bareng Ambar Wati"
15 print(course.lower())
16
17 course = "belajar pyhton bareng Ambar Wati"
18 print(course.capitalize())
19
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
/Desktop/python/ke3.py
32
BELAJAR PYHTON BARENG AMBAR WATI
Belajar Pyhton Bareng Ambar Wati
BELAJAR PYHTON BARENG AMBAR WATI
belajar pyhton bareng ambar wati
Belajar pyhton bareng ambar wati
Belajar Pyhton Bareng Ambar Wati
belajar javascript bareng Ambar Wati
True
False
PS C:\Users\LENOVO\Desktop>
```



```
python > ke3.py > ...
15 print(course.lower())
16
17 course = "belajar pyhton bareng Ambar Wati"
18 print(course.capitalize())
19
20 course = "belajar pyhton bareng Ambar Wati"
21 print(course.title())
22
23 course = "belajar pyhton bareng Ambar Wati"
24 print(course.replace("pyhton", "javascript"))
25
26 course = "belajar pyhton bareng Ambar Wati"
27 language = "pyhton"
28 print(language in course)
29
30 course = "belajar pyhton bareng Ambar Wati"
31 language = "javascript"
32 print(language in course)
33
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
/Desktop/python/ke3.py
32
BELAJAR PYHTON BARENG AMBAR WATI
Belajar Pyhton Bareng Ambar Wati
BELAJAR PYHTON BARENG AMBAR WATI
belajar pyhton bareng ambar wati
Belajar pyhton bareng ambar wati
Belajar Pyhton Bareng Ambar Wati
belajar javascript bareng Ambar Wati
True
False
PS C:\Users\LENOVO\Desktop>
```

4. Matematika

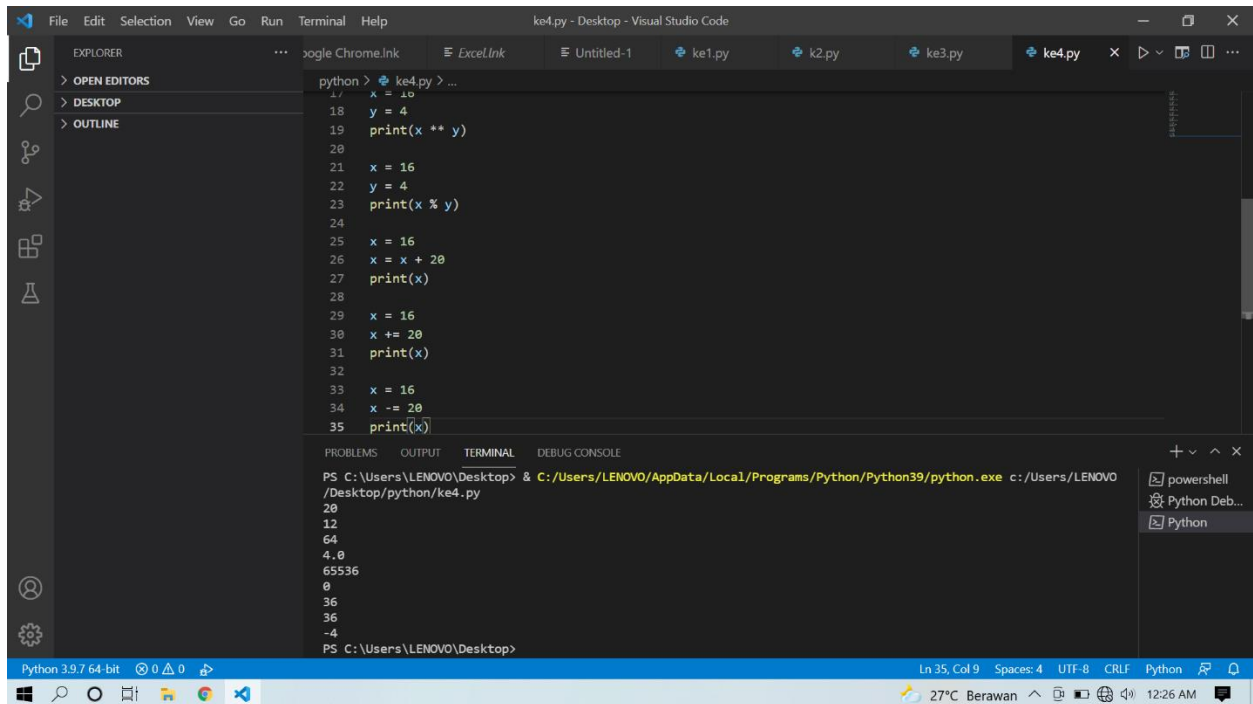


The screenshot shows the Visual Studio Code interface with a Python file named `ke4.py` open. The file contains a series of arithmetic operations on variables `x` and `y`. The terminal window at the bottom shows the execution of the script, displaying the results of each operation.

```
python > ke4.py > ...
1  X = 16
2  Y = 4
3  print(X + Y)
4
5  x = 16
6  y = 4
7  print(x - y)
8
9  x = 16
10 y = 4
11 print(x * y)
12
13 x = 16
14 y = 4
15 print(x / y)
16
17 x = 16
18 y = 4
19 print(x ** y)
```

Terminal Output:

```
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/ke4.py
20
12
64
4.0
65536
0
36
36
-4
PS C:\Users\LENOVO\Desktop>
```



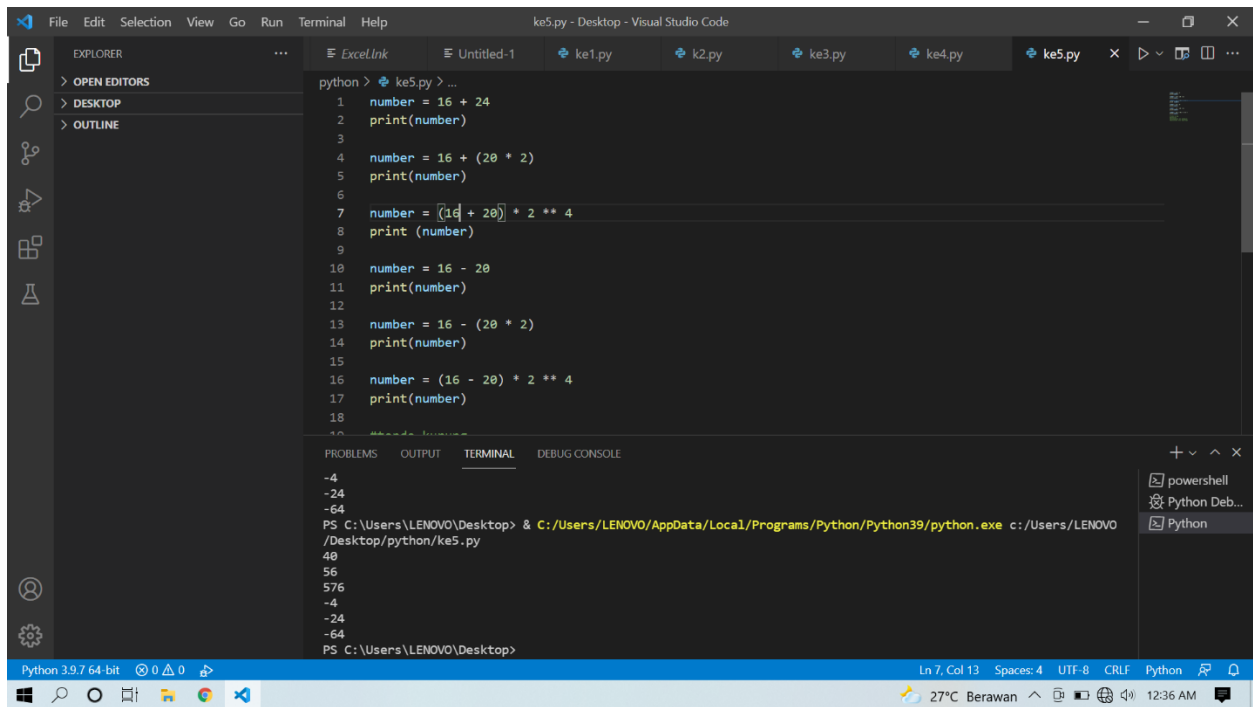
The screenshot shows the Visual Studio Code interface with a Python file named `ke4.py` open. The file contains a series of operations including incrementing `x`, modulo operation, and arithmetic operations. The terminal window at the bottom shows the execution of the script, displaying the results of each operation.

```
python > ke4.py > ...
18 x = 16
19 print(x ++ y)
20
21 x = 16
22 y = 4
23 print(x % y)
24
25 x = 16
26 x = x + 20
27 print(x)
28
29 x = 16
30 x += 20
31 print(x)
32
33 x = 16
34 x -= 20
35 print(x)
```

Terminal Output:

```
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/ke4.py
20
12
64
4.0
65536
0
36
36
-4
PS C:\Users\LENOVO\Desktop>
```

5. Operator Precedence

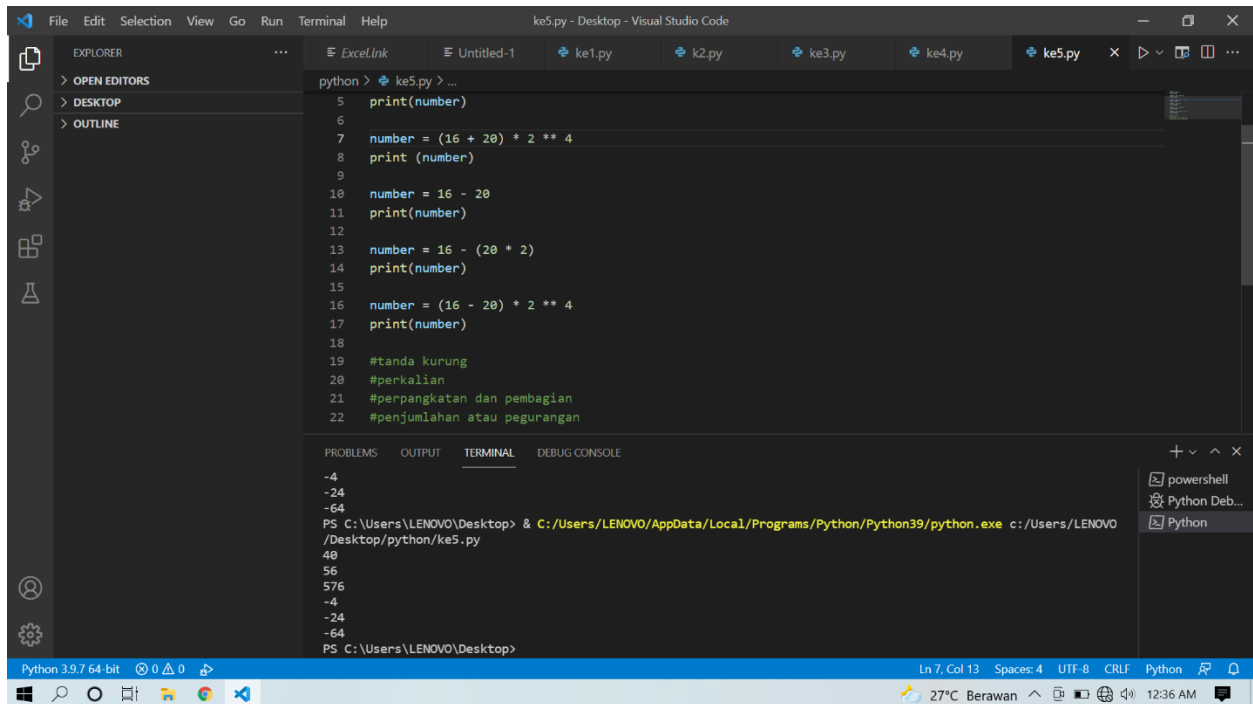


The screenshot shows a Visual Studio Code editor with a Python file named `ke5.py`. The script contains several lines of code demonstrating operator precedence. The terminal output shows the results of these operations.

```
python > ke5.py > ...
1  number = 16 + 24
2  print(number)
3
4  number = 16 + (20 * 2)
5  print(number)
6
7  number = ((16 + 20)) * 2 ** 4
8  print (number)
9
10 number = 16 - 20
11 print(number)
12
13 number = 16 - (20 * 2)
14 print(number)
15
16 number = (16 - 20) * 2 ** 4
17 print(number)
18
```

The terminal output shows the results of these operations:

```
-4
-24
-64
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO
/Desktop/python/ke5.py
40
56
576
-4
-24
-64
PS C:\Users\LENOVO\Desktop>
```



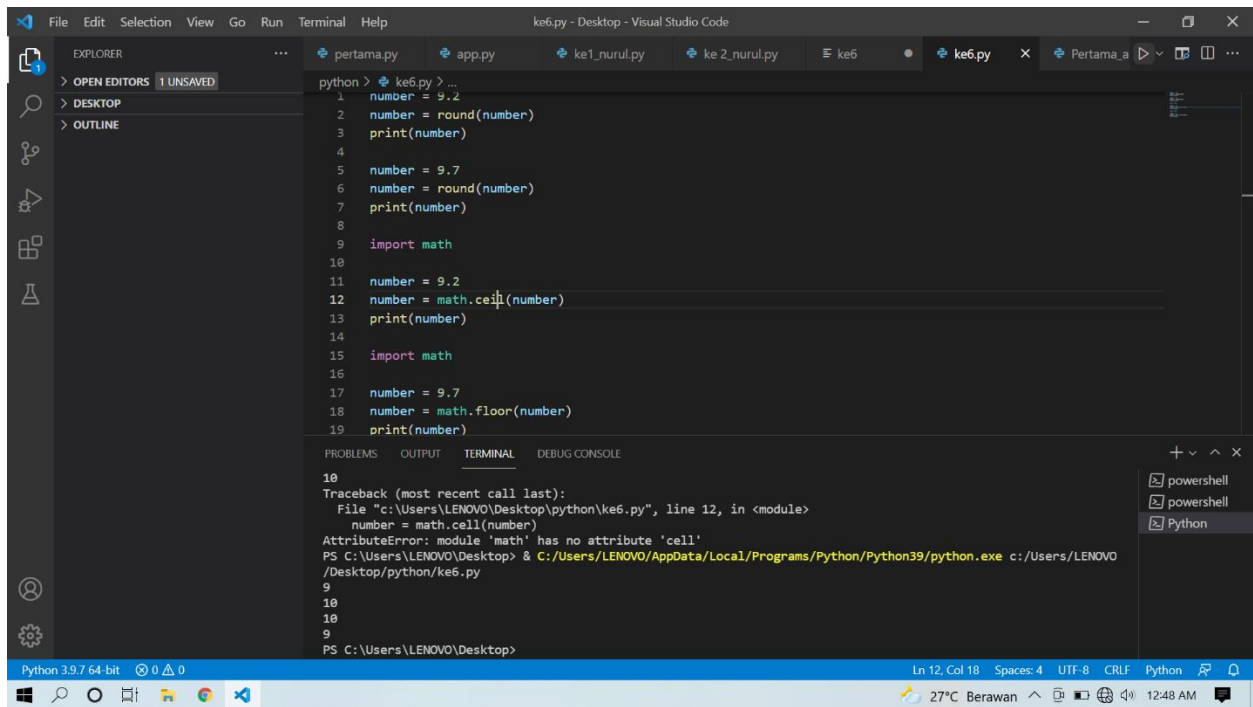
The screenshot shows a Visual Studio Code editor with a Python file named `ke5.py`. The script contains several lines of code demonstrating operator precedence, with comments in Indonesian. The terminal output shows the results of these operations.

```
python > ke5.py > ...
5  print(number)
6
7  number = (16 + 20) * 2 ** 4
8  print (number)
9
10 number = 16 - 20
11 print(number)
12
13 number = 16 - (20 * 2)
14 print(number)
15
16 number = (16 - 20) * 2 ** 4
17 print(number)
18
19 #tanda kurung
20 #perkalian
21 #perpangkatan dan pembagian
22 #penjumlahan atau pengurangan
```

The terminal output shows the results of these operations:

```
-4
-24
-64
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO
/Desktop/python/ke5.py
40
56
576
-4
-24
-64
PS C:\Users\LENOVO\Desktop>
```

6. Math Module



The screenshot shows the Visual Studio Code interface with a Python file named `ke6.py` open. The code in the editor is as follows:

```
python > ke6.py > ...
1 number = 9.2
2 number = round(number)
3 print(number)
4
5 number = 9.7
6 number = round(number)
7 print(number)
8
9 import math
10
11 number = 9.2
12 number = math.cell(number)
13 print(number)
14
15 import math
16
17 number = 9.7
18 number = math.floor(number)
19 print(number)
```

The bottom panel shows the **TERMINAL** tab with the following output:

```
10
Traceback (most recent call last):
  File "c:\Users\LENOVO\Desktop\python\ke6.py", line 12, in <module>
    number = math.cell(number)
AttributeError: module 'math' has no attribute 'cell'
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/ke6.py
9
10
10
9
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is `ke6.py`, line 12, column 18, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows the temperature as 27°C and the time as 12:48 AM.