

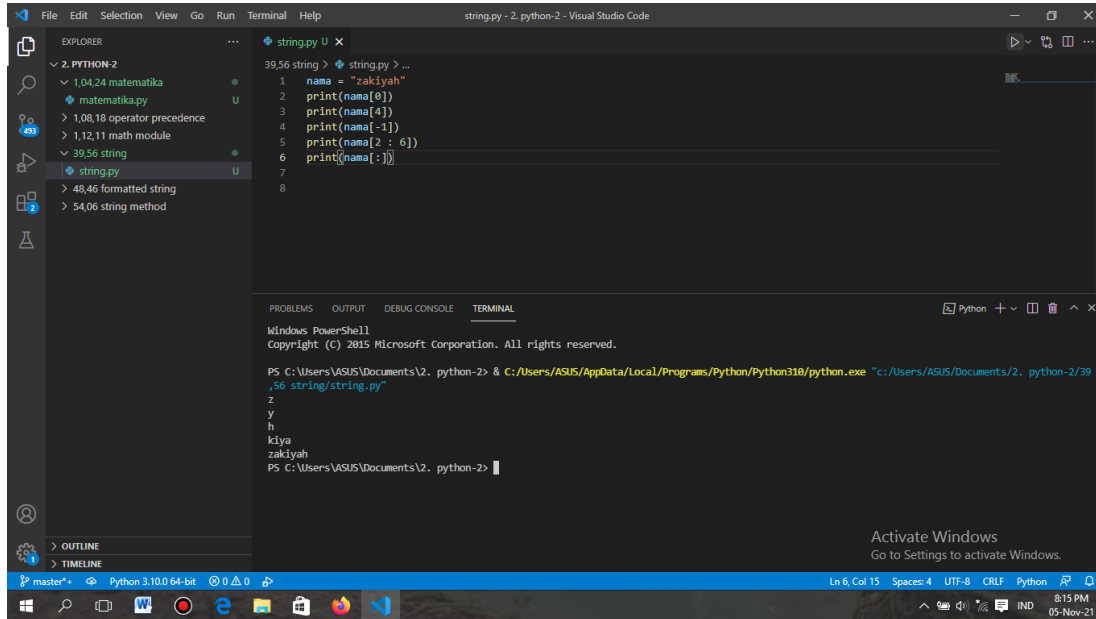
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Nim : 20.01.013.030

Kelas : AI b

Link 2. Python-2

1. String



The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a project named '2. PYTHON-2'. Inside this project, there are files for 'matematika.py' and 'string.py'. The 'string.py' file is open in the editor, showing the following code:

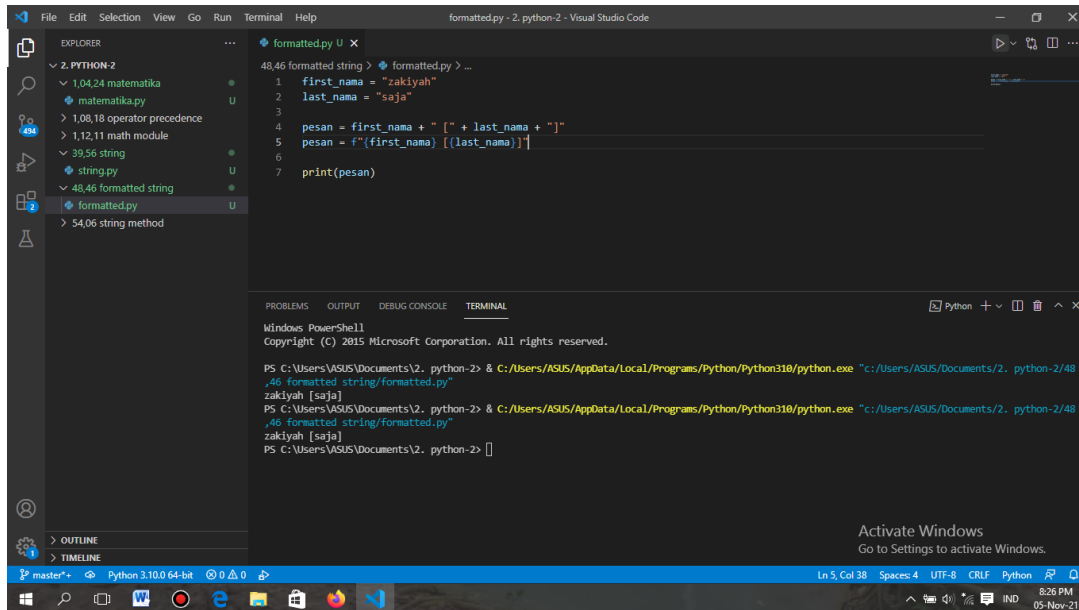
```
39,56 string > string.py > ...
1  nama = "zakiyah"
2  print(nama[0])
3  print(nama[4])
4  print(nama[-1])
5  print(nama[2 : 6])
6  print(nama[:])
7
8
```

The terminal at the bottom shows the execution of the script using Python 3.10.0. The output is as follows:

```
Windows PowerShell
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PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/39,56 string/string.py"
z
y
h
kiya
zakiyah
PS C:\Users\ASUS\Documents\2. python-2>
```

2. Formatted string



The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a project named '2. PYTHON-2'. Inside this project, there are files for 'matematika.py' and 'formatted.py'. The 'formatted.py' file is open in the editor, showing the following code:

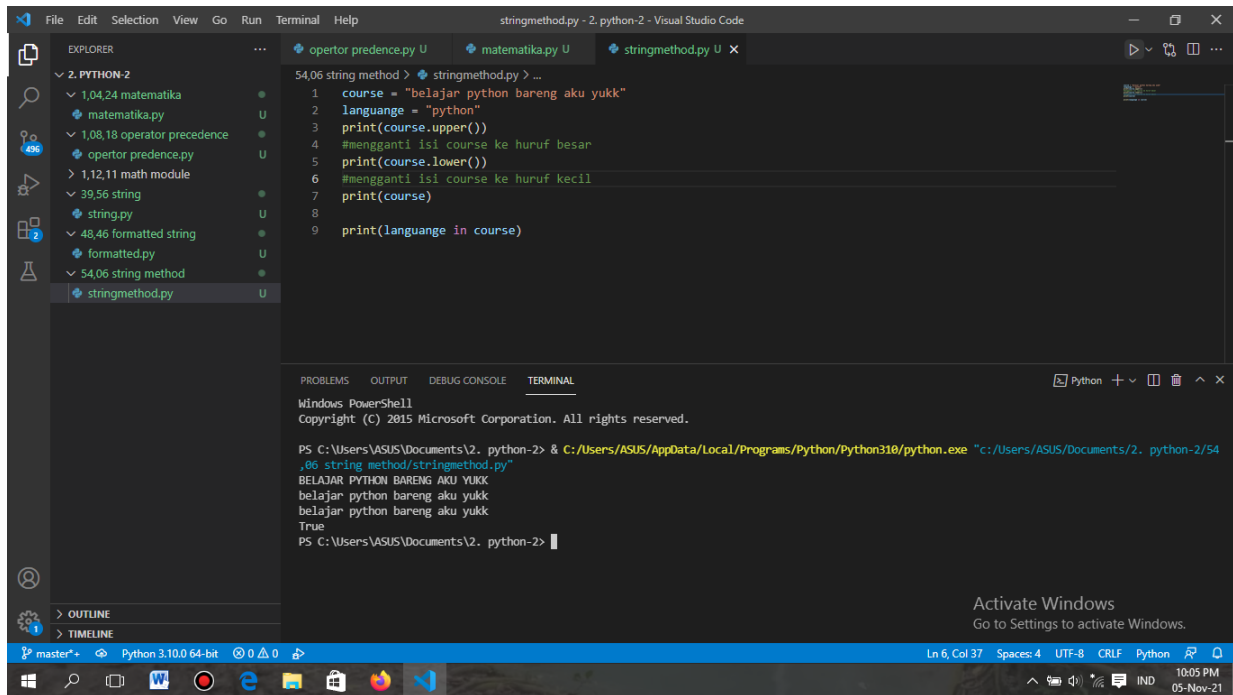
```
48,46 formatted string > formatted.py > ...
1  first_nama = "zakiyah"
2  last_nama = "saja"
3
4  pesan = first_nama + " [" + last_nama + "]"
5  pesan = f"({first_nama}) {(last_nama)}"
6
7  print(pesan)
```

The terminal at the bottom shows the execution of the script using Python 3.10.0. The output is as follows:

```
Windows PowerShell
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/48,46 formatted string/formatted.py"
zakiyah [saja]
PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/48,46 formatted string/formatted.py"
zakiyah (saja)
PS C:\Users\ASUS\Documents\2. python-2>
```

3. String method

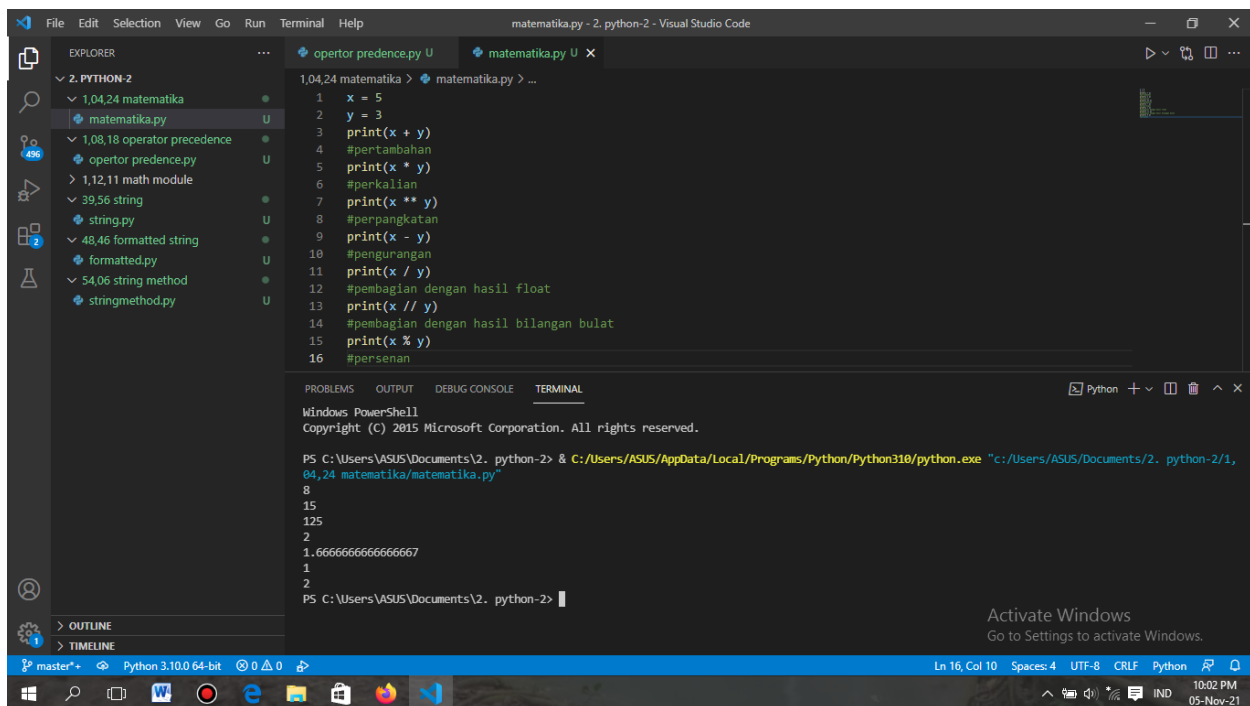


The screenshot shows the Visual Studio Code interface with the 'stringmethod.py' file open. The Explorer pane on the left shows a project structure with a folder '2. PYTHON-2' containing several files, including 'stringmethod.py'. The main editor displays the code for 'stringmethod.py', which defines a variable 'course' with the value 'belajar python bareng aku yukk', converts it to uppercase and lowercase, and checks if 'python' is in the string. The terminal at the bottom shows the command to run the script, followed by the output: 'BELAJAR PYTHON BARENG AKU YUKK', 'belajar python bareng aku yukk', and 'True'.

```
1 course = "belajar python bareng aku yukk"
2 language = "python"
3 print(course.upper())
4 #mengganti isi course ke huruf besar
5 print(course.lower())
6 #mengganti isi course ke huruf kecil
7 print(course)
8
9 print(language in course)
```

```
PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/54,06 string method/stringmethod.py"
BELAJAR PYTHON BARENG AKU YUKK
belajar python bareng aku yukk
True
PS C:\Users\ASUS\Documents\2. python-2>
```

4. Matematika

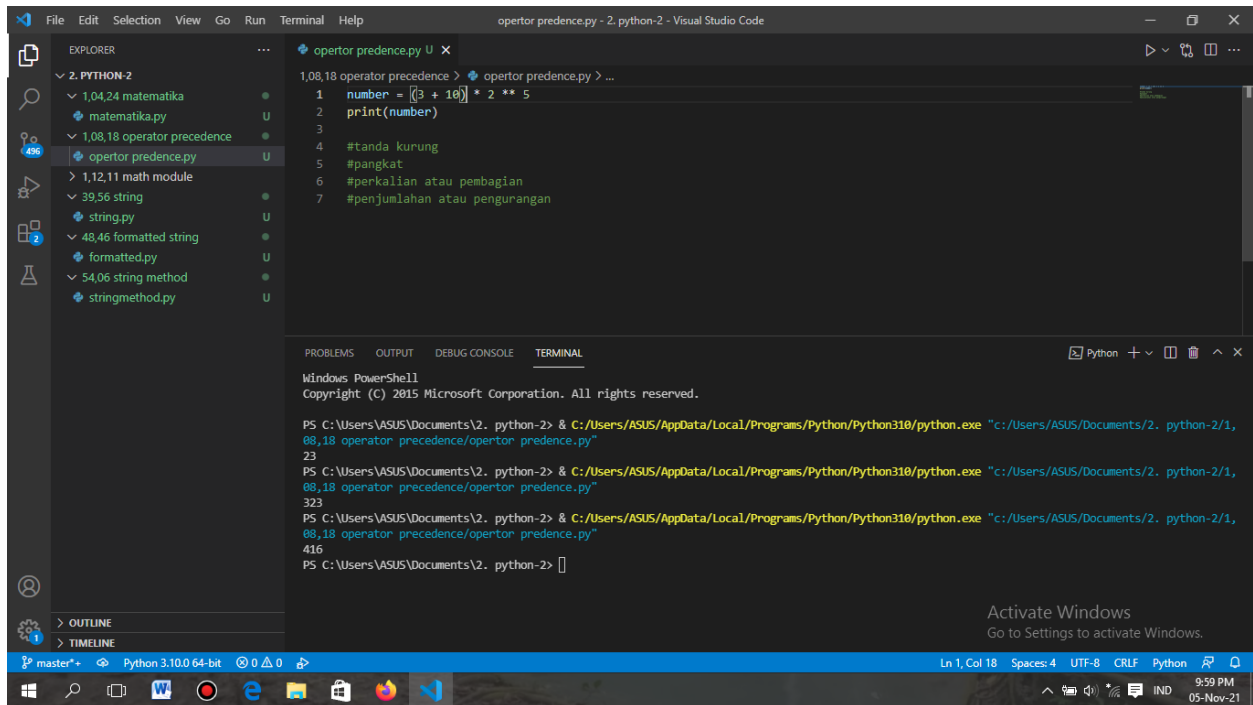


The screenshot shows the Visual Studio Code interface with the 'matematika.py' file open. The Explorer pane on the left shows a project structure with a folder '2. PYTHON-2' containing several files, including 'matematika.py'. The main editor displays the code for 'matematika.py', which defines variables 'x' and 'y' and performs various arithmetic operations (addition, multiplication, exponentiation, subtraction, division, and modulus) using the 'print' function. The terminal at the bottom shows the command to run the script, followed by the output of the calculations.

```
1 x = 5
2 y = 3
3 print(x + y)
4 #pertambahan
5 print(x * y)
6 #perkalian
7 print(x ** y)
8 #perpangkatan
9 print(x - y)
10 #pengurangan
11 print(x / y)
12 #pembagian dengan hasil float
13 print(x // y)
14 #pembagian dengan hasil bilangan bulat
15 print(x % y)
16 #persenan
```

```
PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/1,04,24 matematika/matematika.py"
8
15
125
2
1.6666666666666667
1
2
PS C:\Users\ASUS\Documents\2. python-2>
```

5. Operator precedence



The screenshot shows the Visual Studio Code interface with a file named 'operator precedence.py' open. The file contains the following code:

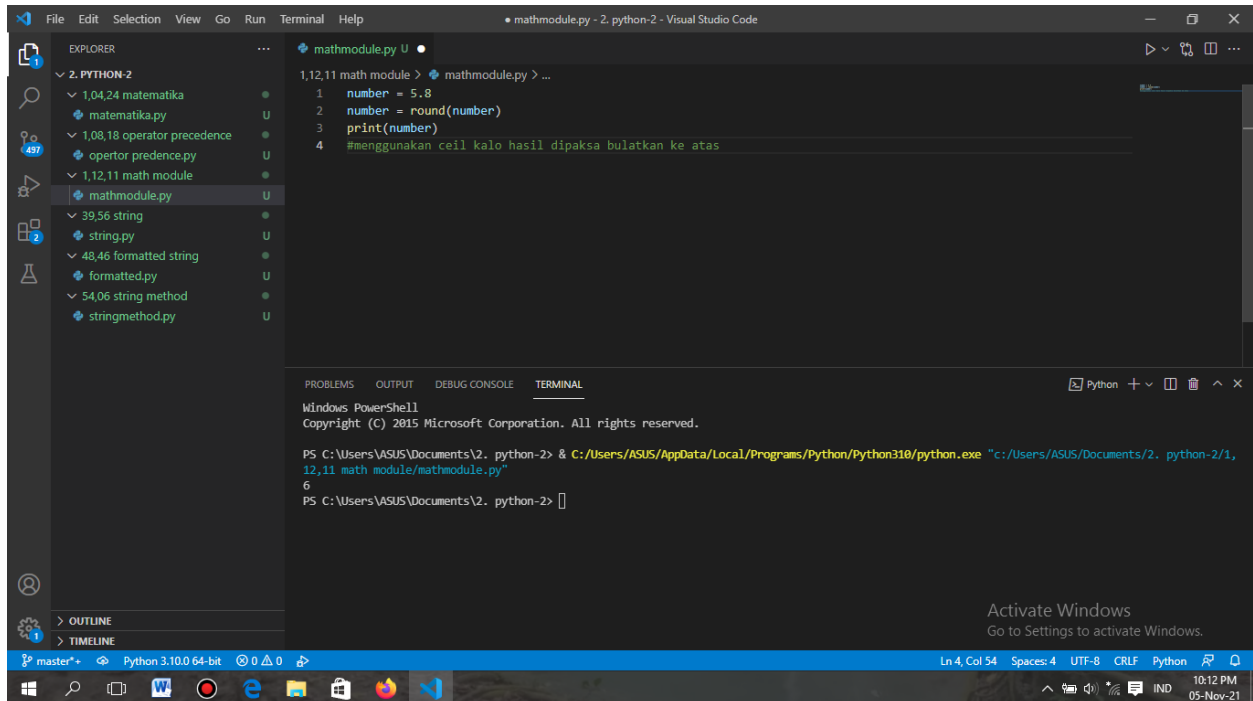
```
1,08,18 operator precedence > operator precedence.py > ...
1 number = [(3 + 10) * 2 ** 5
2 print(number)
3
4 #tanda kurung
5 #pangkat
6 #perkalian atau pembagian
7 #penjumlahan atau pengurangan
```

The terminal output shows the execution of the code:

```
Windows PowerShell
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PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/1,08,18 operator precedence/operator precedence.py"
23
PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/1,08,18 operator precedence/operator precedence.py"
323
PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/1,08,18 operator precedence/operator precedence.py"
416
PS C:\Users\ASUS\Documents\2. python-2>
```

6. Math module



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

```
1,12,11 math module > mathmodule.py > ...
1 number = 5.8
2 number = round(number)
3 print(number)
4 #menggunakan ceil kalo hasil dipaksa bulatkan ke atas
```

The terminal output shows the execution of the code:

```
Windows PowerShell
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

PS C:\Users\ASUS\Documents\2. python-2> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/2. python-2/1,12,11 math module/mathmodule.py"
6
PS C:\Users\ASUS\Documents\2. python-2>
```