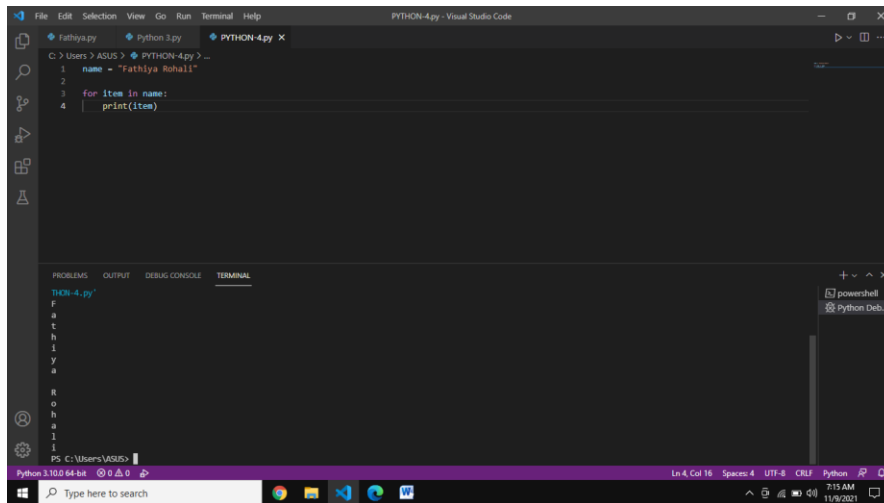


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NIM : 20.01.013.051
Kelas : Informatika-B
Mata Kuliah : Kecerdasan Buatan

Tugas Python 4

■ Perulangan For



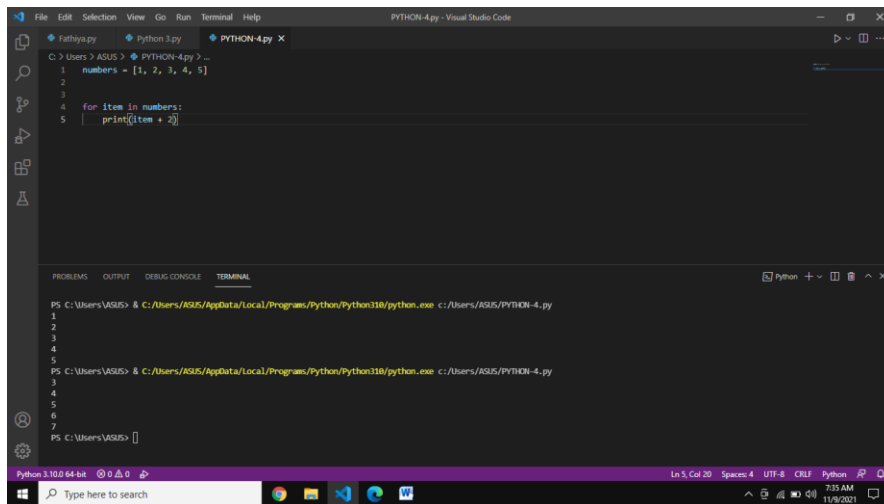
The screenshot shows the Visual Studio Code editor with a file named `PYTHON-4.py`. The code in the editor is:

```
1 name = "Fathiya Rohali"
2
3 for item in name:
4     print(item)
```

The output window at the bottom shows the result of running the script:

```
Python-4.py
F
a
t
h
i
y
a
R
o
h
a
l
i
```

The status bar at the bottom indicates the file is encoded in UTF-8 with CRLF line endings.



The screenshot shows the Visual Studio Code editor with a file named `PYTHON-4.py`. The code in the editor is:

```
1 numbers = [1, 2, 3, 4, 5]
2
3
4 for item in numbers:
5     print(item + 2)
```

The output window at the bottom shows the result of running the script:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/PYTHON-4.py
3
4
5
6
7
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the file is encoded in UTF-8 with CRLF line endings.

The screenshot shows the Visual Studio Code editor with a file named `PYTHON-4.py` open. The code in the editor is:

```
1 for item in range(8):
2     print(item)
```

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

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
0
1
2
3
4
5
6
7
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the file is `Python 3.10.0 64-bit`, `Ln 2, Col 16`, `Spaces: 4`, `UTF-8`, `CRLF`, and the date is `11/9/2021`.

List

The screenshot shows the Visual Studio Code editor with a file named `PYTHON-4.py` open. The code in the editor is:

```
1 names = ["Iqbal", "Angga", "Rizky", "Yesaya", "Aiden"]
2
3 print(names)
```

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

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
["Iqbal", "Angga", "Rizky", "Yesaya", "Aiden"]
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the file is `Python 3.10.0 64-bit`, `Ln 1, Col 8`, `Spaces: 4`, `UTF-8`, `CRLF`, and the date is `11/9/2021`.

The screenshot shows the Visual Studio Code editor with a file named `PYTHON-4.py` open. The code in the editor is:

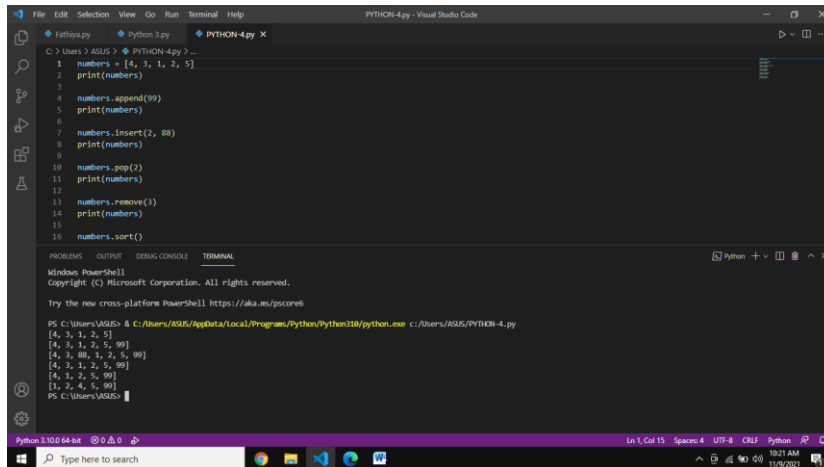
```
1 names = ["Iqbal", "Angga", "Rizky", "Yesaya", "Aiden"]
2
3 for name in names:
4     print(f"Name : {name}")
```

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

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
Name : Iqbal
Name : Angga
Name : Rizky
Name : Yesaya
Name : Aiden
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the file is `Python 3.10.0 64-bit`, `Ln 4, Col 29`, `Spaces: 4`, `UTF-8`, `CRLF`, and the date is `11/9/2021`.

List Methode



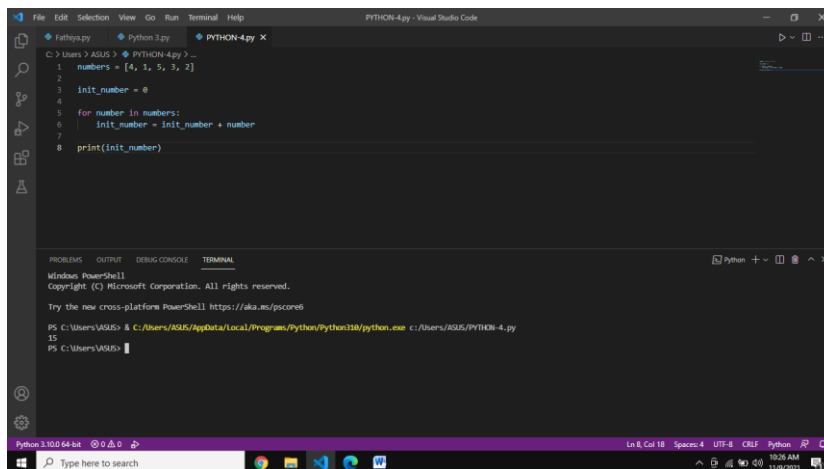
```
File Edit Selection View Go Run Terminal Help
PYTHON-4.py - Visual Studio Code
Fathya.py Python 3.py PYTHON-4.py X
C:\Users\ASUS> PYTHON-4.py > ...
1 numbers = [4, 3, 1, 2, 5]
2 print(numbers)
3
4 numbers.append(99)
5 print(numbers)
6
7 numbers.insert(2, 88)
8 print(numbers)
9
10 numbers.pop(2)
11 print(numbers)
12
13 numbers.remove(1)
14 print(numbers)
15
16 numbers.sort()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
[4, 3, 1, 2, 5]
[4, 3, 1, 2, 5, 99]
[4, 3, 88, 1, 2, 5, 99]
[4, 3, 1, 2, 5, 99]
[4, 1, 2, 5, 99]
[1, 2, 4, 5, 99]
PS C:\Users\ASUS>
```

Menjumlahkan List



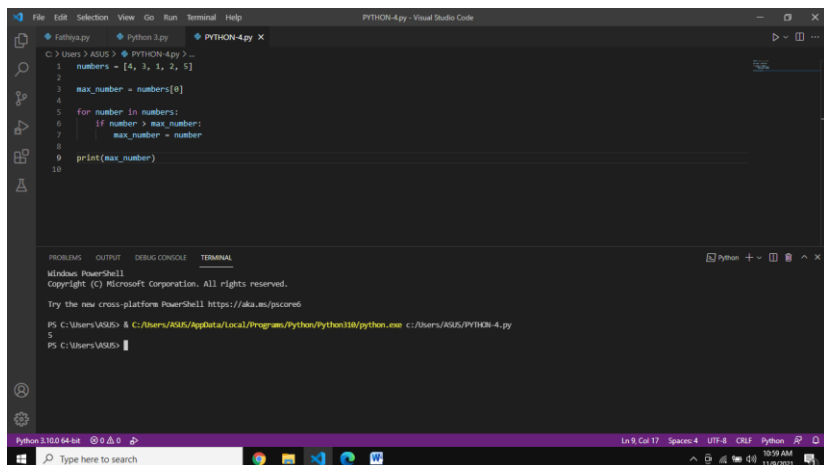
```
File Edit Selection View Go Run Terminal Help
PYTHON-4.py - Visual Studio Code
Fathya.py Python 3.py PYTHON-4.py X
C:\Users\ASUS> PYTHON-4.py > ...
1 numbers = [4, 1, 5, 3, 2]
2
3 init_number = 0
4
5 for number in numbers:
6     init_number = init_number + number
7
8 print(init_number)

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Windows PowerShell
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
12
PS C:\Users\ASUS>
```

Mencari Angka Max



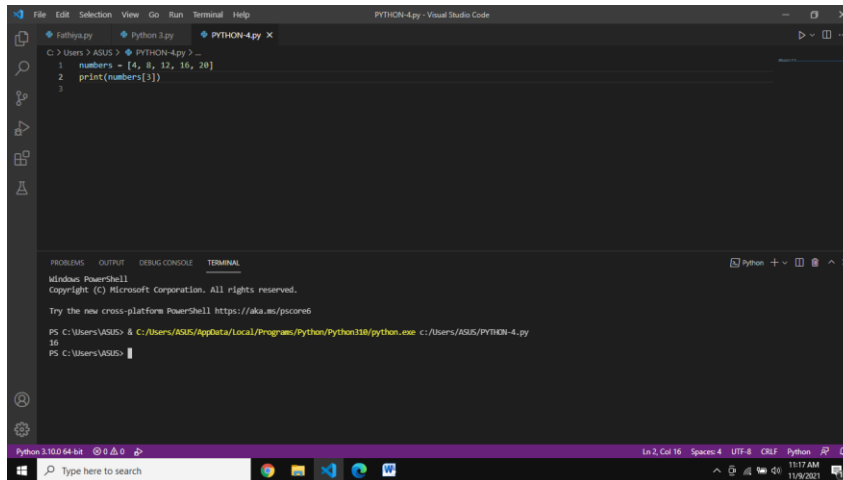
```
File Edit Selection View Go Run Terminal Help
PYTHON-4.py - Visual Studio Code
Fathya.py Python 3.py PYTHON-4.py X
C:\Users\ASUS> PYTHON-4.py > ...
1 numbers = [4, 3, 1, 2, 5]
2
3 max_number = numbers[0]
4
5 for number in numbers:
6     if number > max_number:
7         max_number = number
8
9 print(max_number)
10

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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ASUS\PYTHON-4.py
5
PS C:\Users\ASUS>
```

▪ Tuple



The screenshot shows a Visual Studio Code window with a Python file named `PYTHON-4.py`. The code defines a tuple `numbers = [4, 8, 12, 16, 20]` and prints the element at index 3. The terminal output shows the command `python c:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py` and the output `16`.

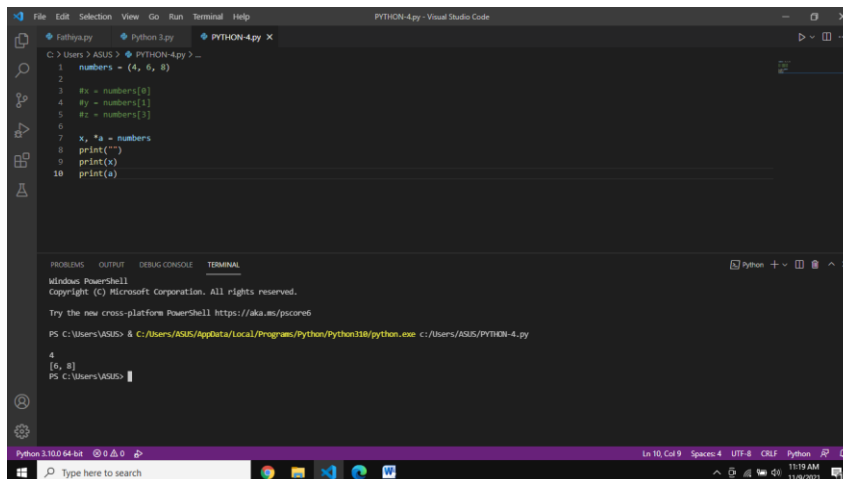
```
1 numbers = [4, 8, 12, 16, 20]
2 print(numbers[3])
3
```

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

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py
16
PS C:\Users\ASUS>
```

▪ Unpack



The screenshot shows a Visual Studio Code window with a Python file named `PYTHON-4.py`. The code defines a tuple `numbers = (4, 6, 8)` and unpacks it into variables `x`, `y`, and `z`. The terminal output shows the command `python c:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py` and the output `[6, 8]`.

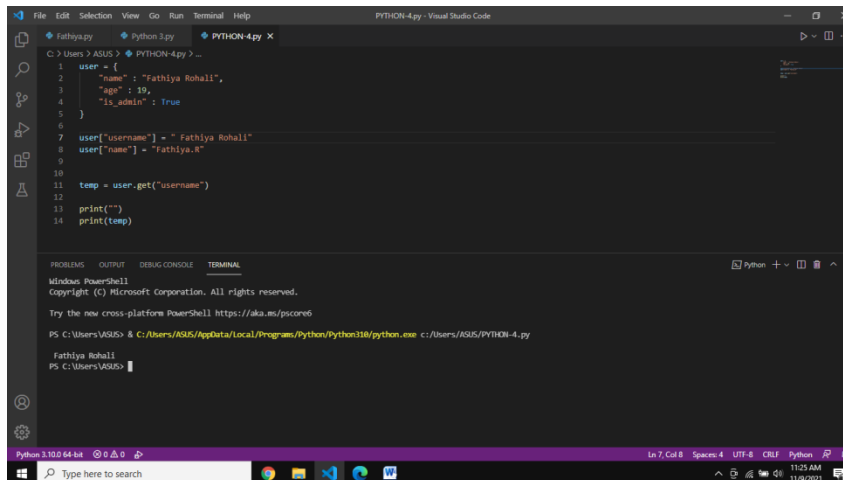
```
1 numbers = (4, 6, 8)
2
3 x = numbers[0]
4 y = numbers[1]
5 z = numbers[2]
6
7 x, y, z = numbers
8 print("")
9 print(x)
10 print(y)
```

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

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py
[6, 8]
PS C:\Users\ASUS>
```

▪ Dictionary



The screenshot shows a Visual Studio Code window with a Python file named `PYTHON-4.py`. The code defines a dictionary `user` with keys `name`, `age`, and `is_admin`. It then prints the value of `user["name"]`. The terminal output shows the command `python c:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py` and the output `Fathiya Rohali`.

```
1 user = {
2     "name": "Fathiya Rohali",
3     "age": 19,
4     "is_admin": True
5 }
6
7 user["username"] = "Fathiya Rohali"
8 user["name"] = "Fathiya.8"
9
10
11 temp = user.get("username")
12
13 print("")
14 print(temp)
```

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Program/Python/Python118/python.exe c:/Users/ASUS/PYTHON-4.py
Fathiya Rohali
PS C:\Users\ASUS>
```