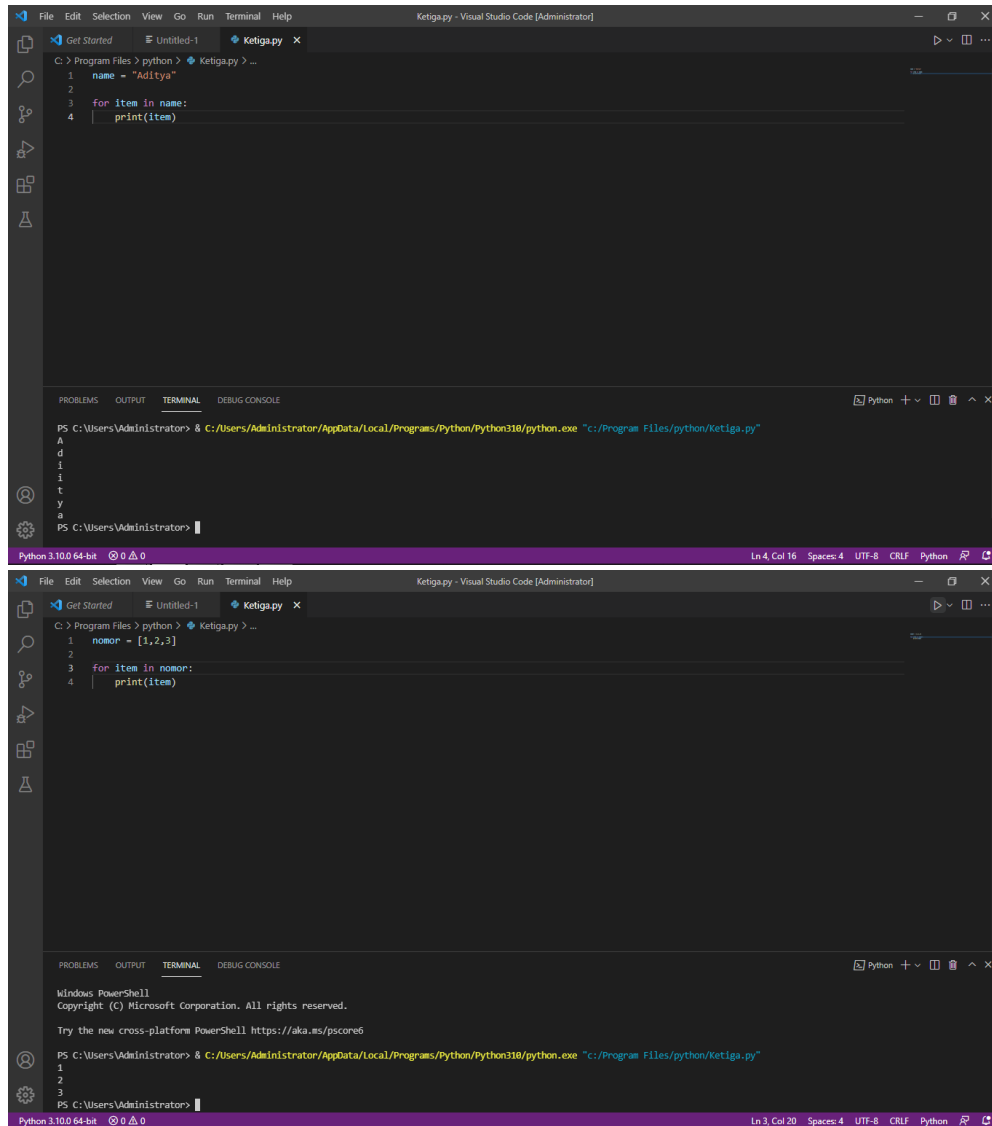


NAMA : ADITYA FA'ATHIR B.

NIM : 20.01.013.035

KELAS : AI B

## 1. Perulangan For



```
File Edit Selection View Go Run Terminal Help
Ketigapy - Visual Studio Code [Administrator]
Get Started Untitled-1 Ketigapy x
C:\Program Files\python> python > Ketigapy > ...
1 name = "Aditya"
2
3 for item in name:
4     print(item)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python Python + - - - - -
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/ketiga.py"
A
d
i
t
i
y
a
PS C:\Users\Administrator>

Python 3.10.0 64-bit 0 0 0 Ln 4, Col 16 Spaces 4 UTF-8 CRLF Python
```

```
File Edit Selection View Go Run Terminal Help
Ketigapy - Visual Studio Code [Administrator]
Get Started Untitled-1 Ketigapy x
C:\Program Files\python> python > Ketigapy > ...
1 nomor = [1,2,3]
2
3 for item in nomor:
4     print(item)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python Python + - - - - -
Windows PowerShell
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PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/ketiga.py"
1
2
3
PS C:\Users\Administrator>

Python 3.10.0 64-bit 0 0 0 Ln 3, Col 20 Spaces 4 UTF-8 CRLF Python
```

The image displays two screenshots of the Visual Studio Code editor interface, showing a Python script being executed in a terminal window.

**Top Screenshot:**

- The editor window shows a file named `Ketiga.py` with the following code:

```
1 for item in range(10):  
2     print(item)
```
- The terminal window shows the command:

```
PS C:\Users\Administrator> & C:\Users\Administrator\AppData\Local\Programs\Python\Python318\python.exe "c:/Program Files/python/Ketiga.py"
```
- The terminal output shows the numbers 0 through 9, each on a new line.

**Bottom Screenshot:**

- The editor window shows the same file `Ketiga.py` with the following code:

```
1 for item in range(1, 10, 3):  
2     print(item)
```
- The terminal window shows the same command as the top screenshot.
- The terminal output shows the numbers 1, 4, and 7, each on a new line.

## 2. List

The image displays a screenshot of the Visual Studio Code editor interface, showing a Python script being executed in a terminal window.

The editor window shows a file named `Ketiga.py` with the following code:

```
1 names = ["Adit", "Fa'athit", "Barkhani", "Pubg"]  
2  
3 print(names)
```

The terminal window shows the command:

```
PS C:\Users\Administrator> & C:\Users\Administrator\AppData\Local\Programs\Python\Python318\python.exe "c:/Program Files/python/Ketiga.py"
```

The terminal output shows the list of names:

```
["Adit", "Fa'athit", "Barkhani", "Pubg"]
```

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

```
1 names = ["Adit", "Fa'athit", "Barkhani", "Pubg"]
2
3 for name in names:
4     print(f"Nama : {name}")
```

The terminal window at the bottom shows the execution of the script using `python.exe`. The output is:

```
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"
Nama : Adit
Nama : Fa'athit
Nama : Barkhani
Nama : Pubg
PS C:\Users\Administrator>
```

The status bar at the bottom indicates the Python version is 3.10.0 64-bit, and the current file is at line 4, column 28.

### 3. List Method

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

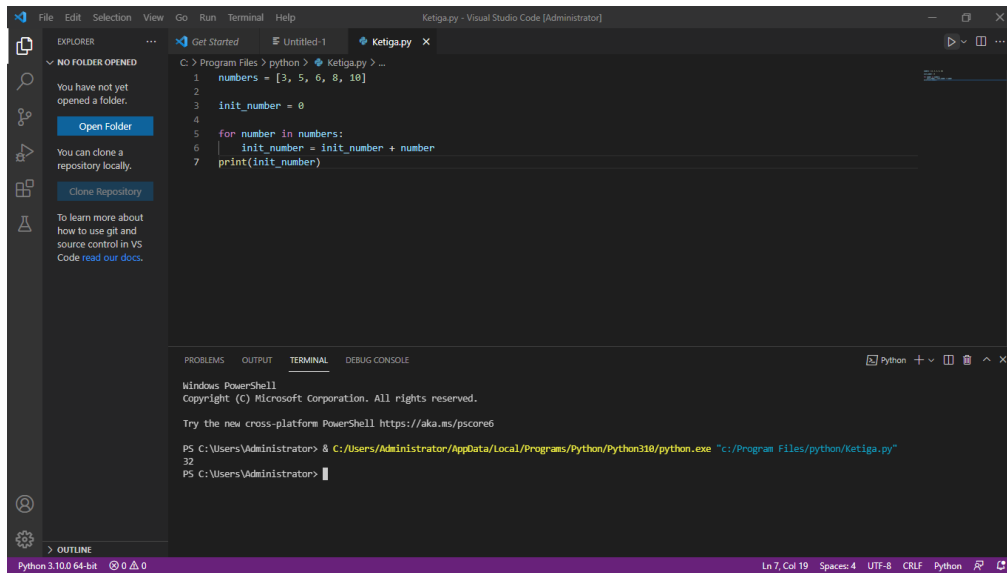
```
1 numbers = [3, 5, 6, 8, 10]
2 print(numbers)
3
4 numbers.append(50)
5 print(numbers)
6
7 numbers.insert(3, 99)
8 print(numbers)
9
10 numbers.pop()
11 print(numbers)
12
13 numbers.remove(6)
14 print(numbers)
15
16 numbers.sort()
17 print(numbers)
18
```

The terminal window at the bottom shows the execution of the script using `python.exe`. The output is:

```
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"
[3, 5, 6, 8, 10]
[3, 5, 6, 8, 10, 50]
[3, 5, 6, 99, 8, 10, 50]
[3, 5, 99, 10, 50]
[3, 5, 10, 50, 99]
PS C:\Users\Administrator>
```

The status bar at the bottom indicates the Python version is 3.10.0 64-bit, and the current file is at line 18, column 1.

## 4. Menjumlahkan List



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

```
1 numbers = [3, 5, 6, 8, 10]
2
3 init_number = 0
4
5 for number in numbers:
6     init_number = init_number + number
7 print(init_number)
```

The terminal at the bottom shows the command to run the script and its output:

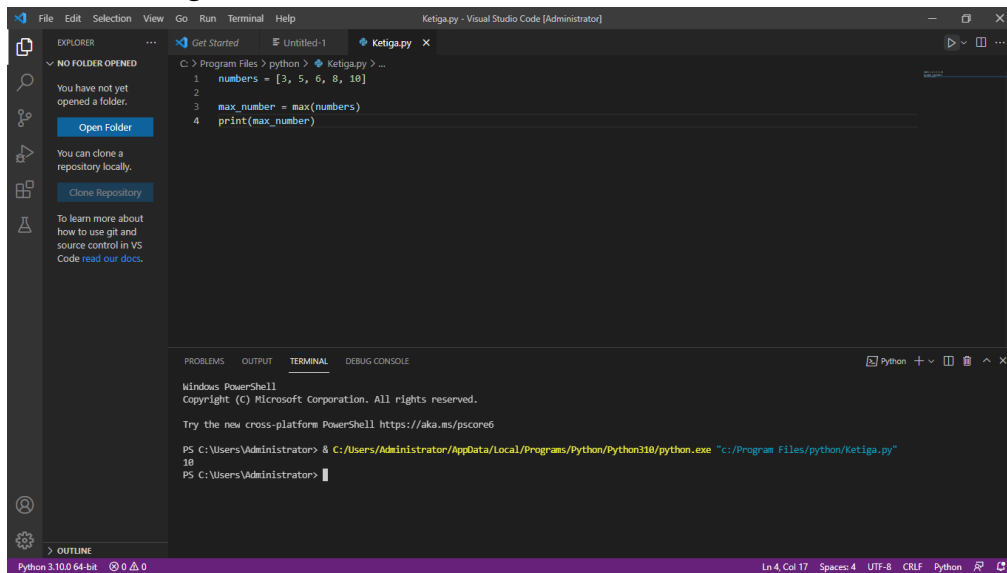
```
Windows PowerShell
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PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"
32
PS C:\Users\Administrator>
```

The status bar at the bottom indicates the file is encoded in UTF-8, has 4 spaces, and is using the Python interpreter.

## 5. Mencari Angka Max



The screenshot shows the Visual Studio Code editor with the same file `Ketiga.py` open. The code in the editor is as follows:

```
1 numbers = [3, 5, 6, 8, 10]
2
3 max_number = max(numbers)
4 print(max_number)
```

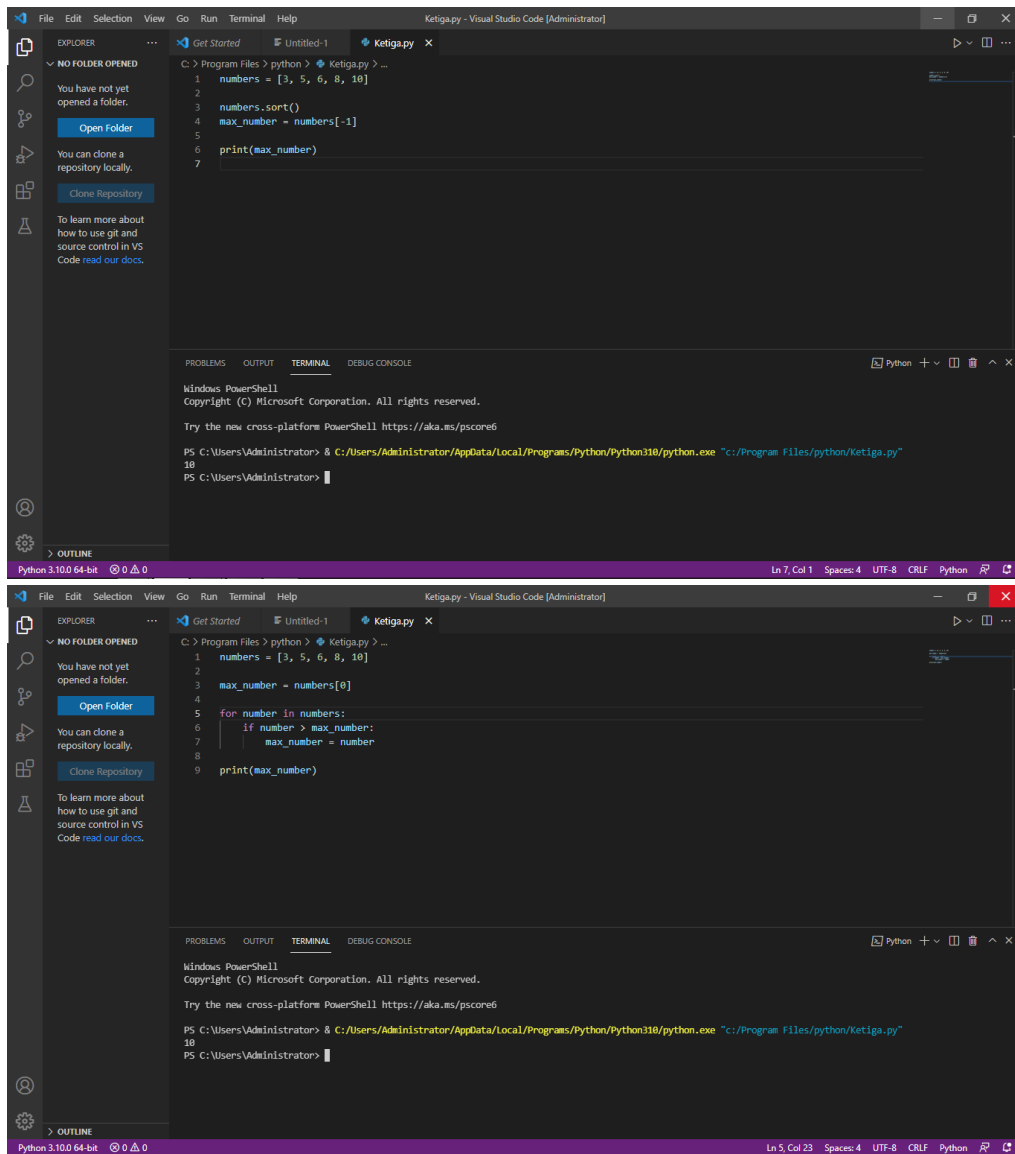
The terminal at the bottom shows the command to run the script and its output:

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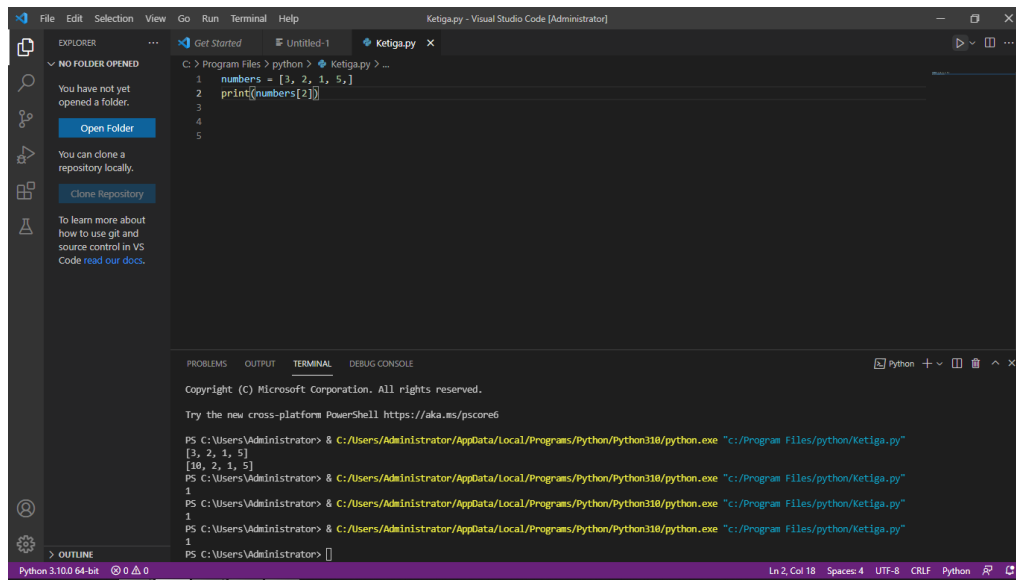
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"
10
PS C:\Users\Administrator>
```

The status bar at the bottom indicates the file is encoded in UTF-8, has 4 spaces, and is using the Python interpreter.



## 6. Tuple



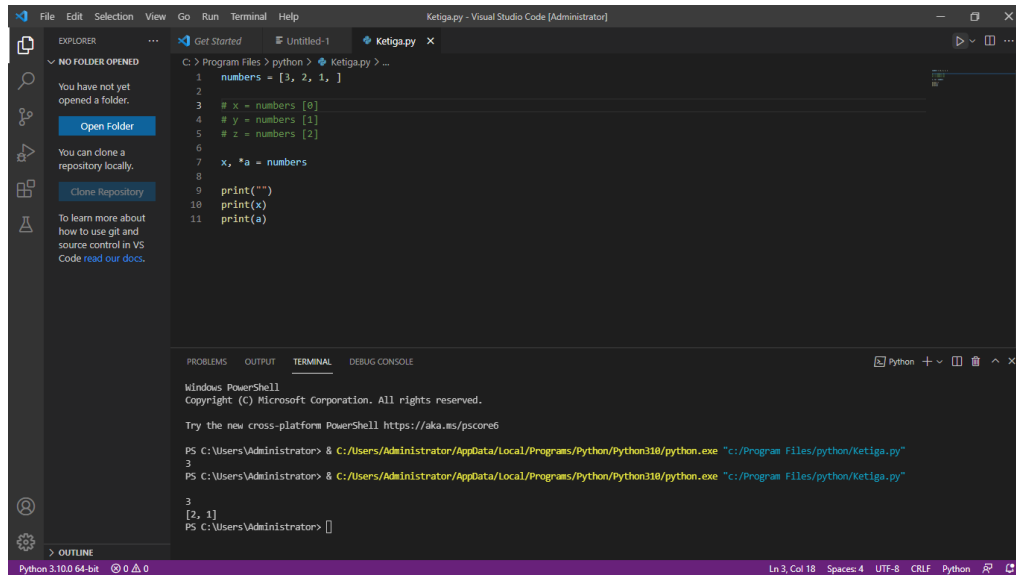
The screenshot shows the Visual Studio Code editor with a file named `Ketiga.py` open. The code in the editor is:

```
1 numbers = [3, 2, 1, 5,]  
2 print(numbers[2])  
3  
4  
5
```

The terminal at the bottom shows the execution of the script using Python 3.10.0 64-bit. The output is:

```
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
[3, 2, 1, 5]  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
1  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
1  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
1  
PS C:\Users\Administrator> []
```

## 7. Unpack



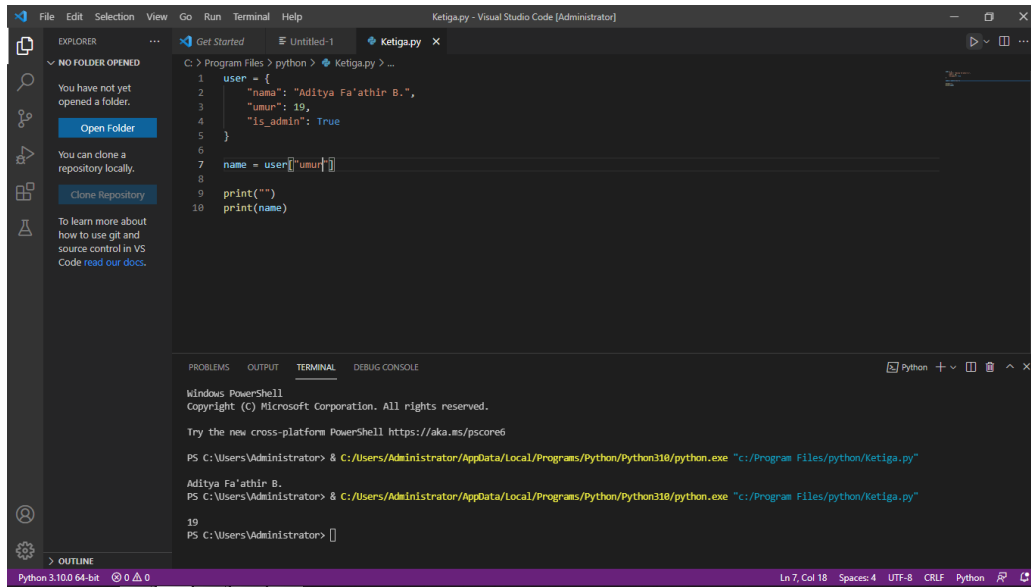
The screenshot shows the Visual Studio Code editor with a file named `Ketiga.py` open. The code in the editor is:

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

The terminal at the bottom shows the execution of the script using Python 3.10.0 64-bit. The output is:

```
Windows PowerShell  
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PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
3  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
3  
[2, 1]  
PS C:\Users\Administrator> []
```

## 8. Dictionary



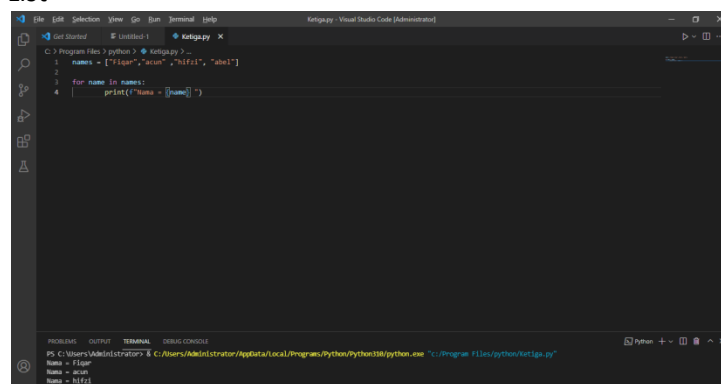
The screenshot shows the Visual Studio Code editor with a file named `Ketiga.py` open. The code defines a dictionary `user` with keys `nama`, `umur`, and `is_admin`. It then retrieves the value for `umur` and prints it.

```
1 user = {  
2     "nama": "Aditya Fa'athir B.",  
3     "umur": 19,  
4     "is_admin": True  
5 }  
6  
7 name = user["umur"]  
8  
9 print("")  
10 print(name)
```

The terminal output shows the execution of the script, displaying the value `19`.

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
Aditya Fa'athir B.  
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
19  
PS C:\Users\Administrator>
```

## 1. List



The screenshot shows the Visual Studio Code editor with a file named `Ketiga.py` open. The code defines a list `names` containing the strings `"Rizki"`, `"Amin"`, `"Nafis"`, and `"Ade"`. It then iterates over the list and prints each element.

```
1 names = ["Rizki", "Amin", "Nafis", "Ade"]  
2  
3 for name in names:  
4     print("Nama = " + name)
```

The terminal output shows the execution of the script, displaying the names `Rizki`, `Amin`, `Nafis`, and `Ade` on separate lines.

```
PS C:\Users\Administrator> & C:/Users/Administrator/AppData/Local/Programs/Python/Python310/python.exe "c:/Program Files/python/Ketiga.py"  
Nama = Rizki  
Nama = Amin  
Nama = Nafis  
Nama = Ade
```