

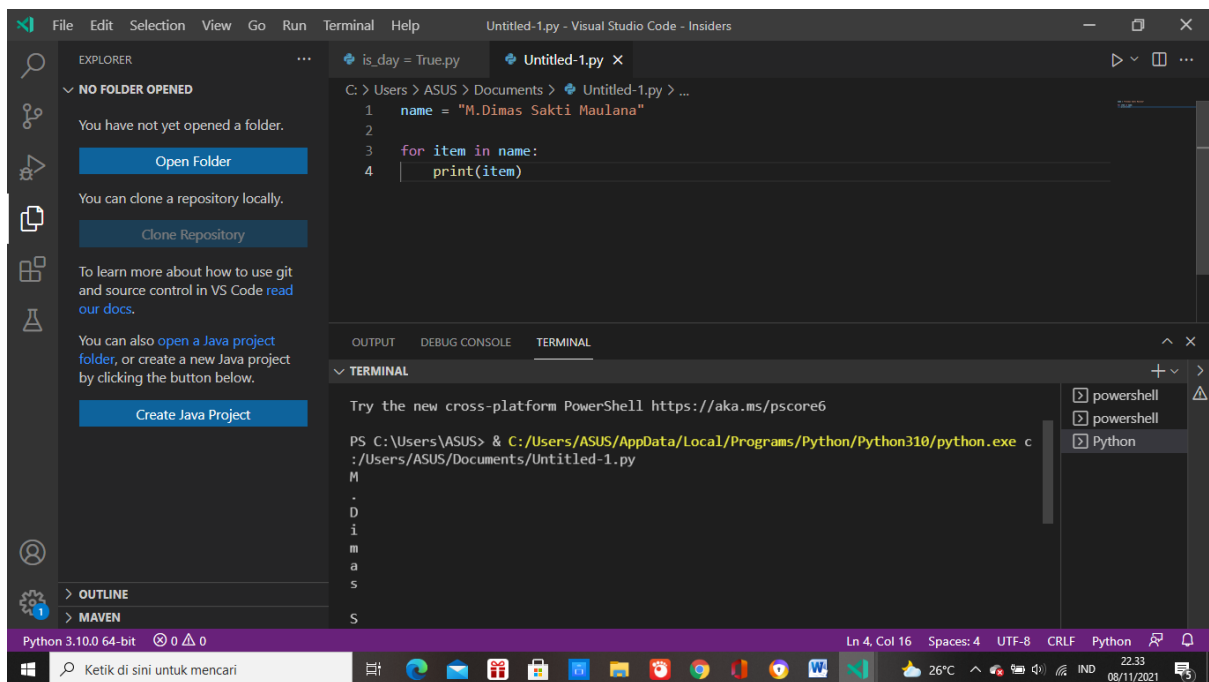
Nama : M.Dimas Sakti Maulana

NIM : 20.01.013.037

Matkul : Artificial Intelligence

## Python 4

### 1. Perulangan For

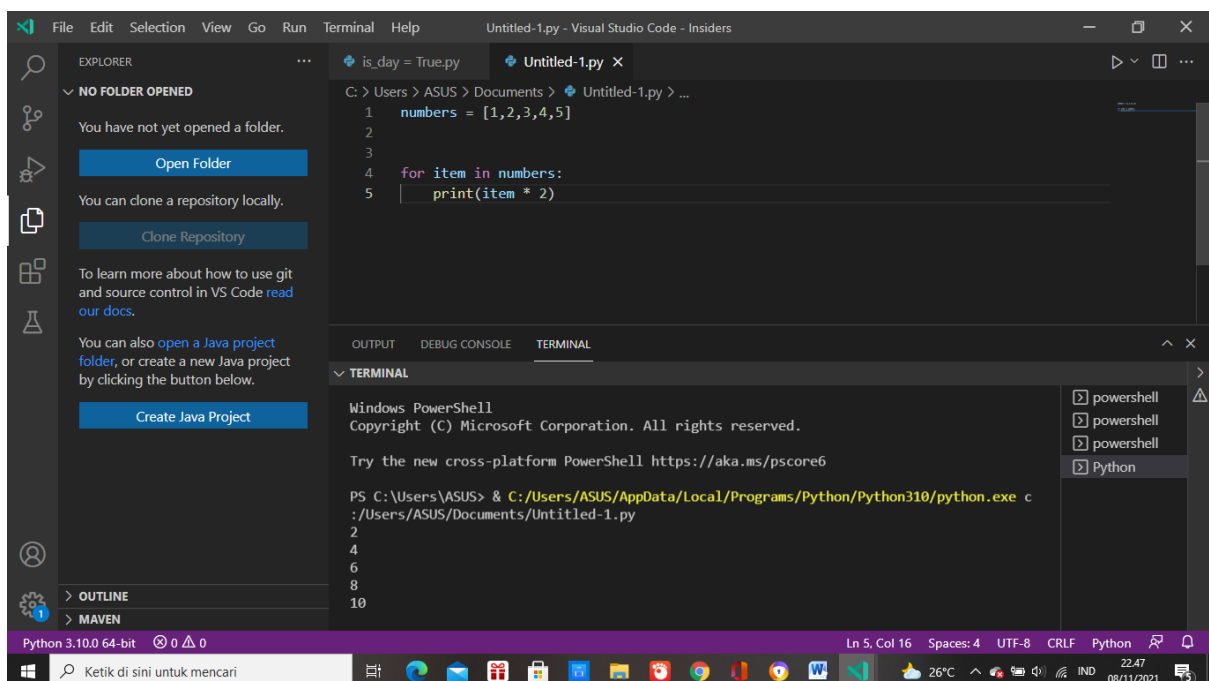


The screenshot shows the Visual Studio Code interface. The Explorer panel on the left indicates 'NO FOLDER OPENED'. The main editor displays a file named 'Untitled-1.py' with the following Python code:

```
1 name = "M.Dimas Sakti Maulana"
2
3 for item in name:
4     print(item)
```

The TERMINAL panel 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/Documents/Untitled-1.py
M
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```

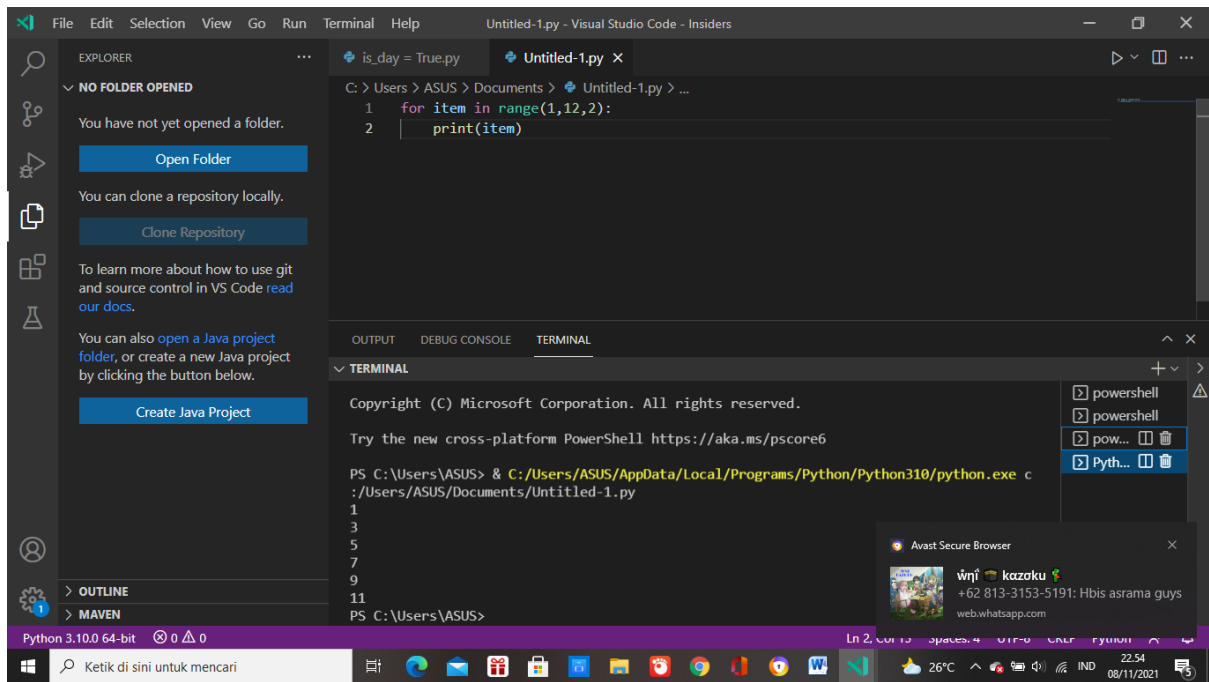


The screenshot shows the Visual Studio Code interface. The Explorer panel on the left indicates 'NO FOLDER OPENED'. The main editor displays a file named 'Untitled-1.py' with the following Python code:

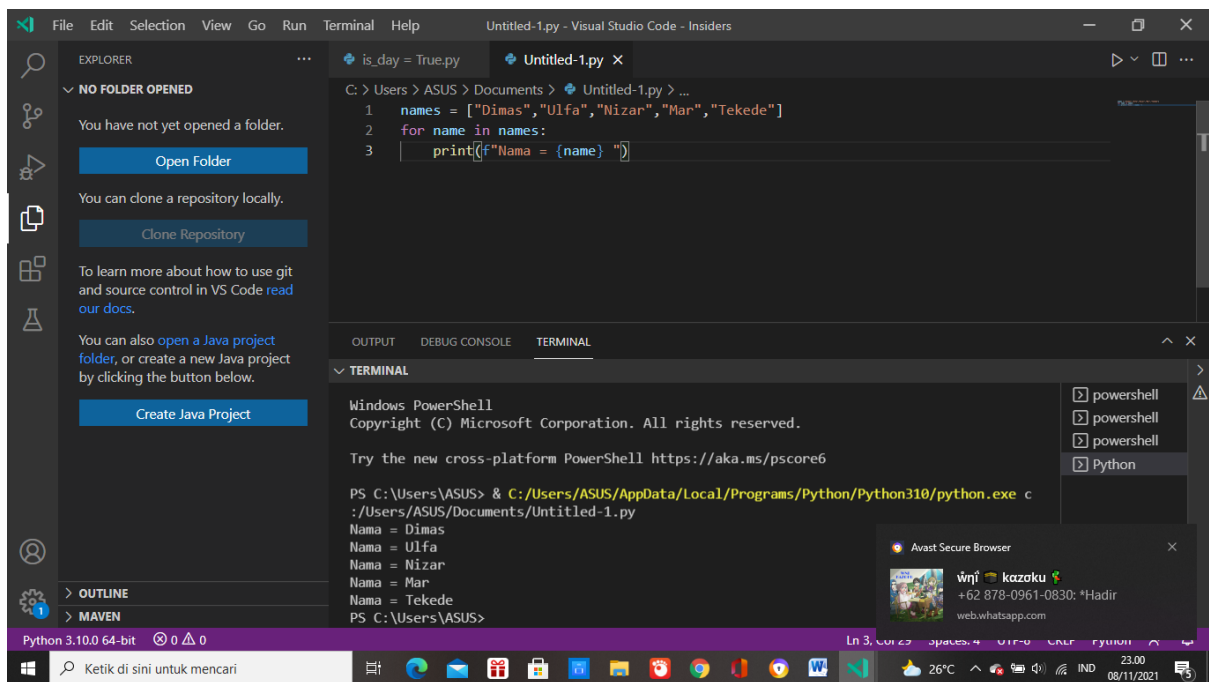
```
1 numbers = [1,2,3,4,5]
2
3
4 for item in numbers:
5     print(item * 2)
```

The TERMINAL panel 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/Documents/Untitled-1.py
2
4
6
8
10
```



## 2. List



## 3. List Method

The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

```
1 numbers = [1,2,3,4,5]
2
3 numbers.append(99)
4 print(numbers)
5
6 numbers.insert(2,100)
7 print(numbers)
8
9 numbers.pop(5)
10 print(numbers)
11
12 numbers.remove(3)
13 print(numbers)
14
15 numbers.sort()
16 print(numbers)
```

The terminal window at the bottom shows the output of the script:

```
:/Users/ASUS/Documents/Untitled-1.py
[1, 2, 3, 4, 5, 99]
[1, 2, 100, 3, 4, 5, 99]
[1, 2, 100, 3, 4, 99]
[1, 2, 100, 4, 99]
[1, 2, 4, 99, 100]
PS C:\Users\ASUS>
```

Append: Menambah nilai pada index.

Insert : Memasukan nilai pada index sesuai dengan index yang si tentukan.

Pop : Menghapus nilai sesuai dengan urutan index.

Remove : Menghapus nilai dengan langsung menuliskan nilai nya.

Sort : Mengurutkan nilai pada index dari yang terkecil ke yang terbesar.

## 4. Menjumlahkan list

The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

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

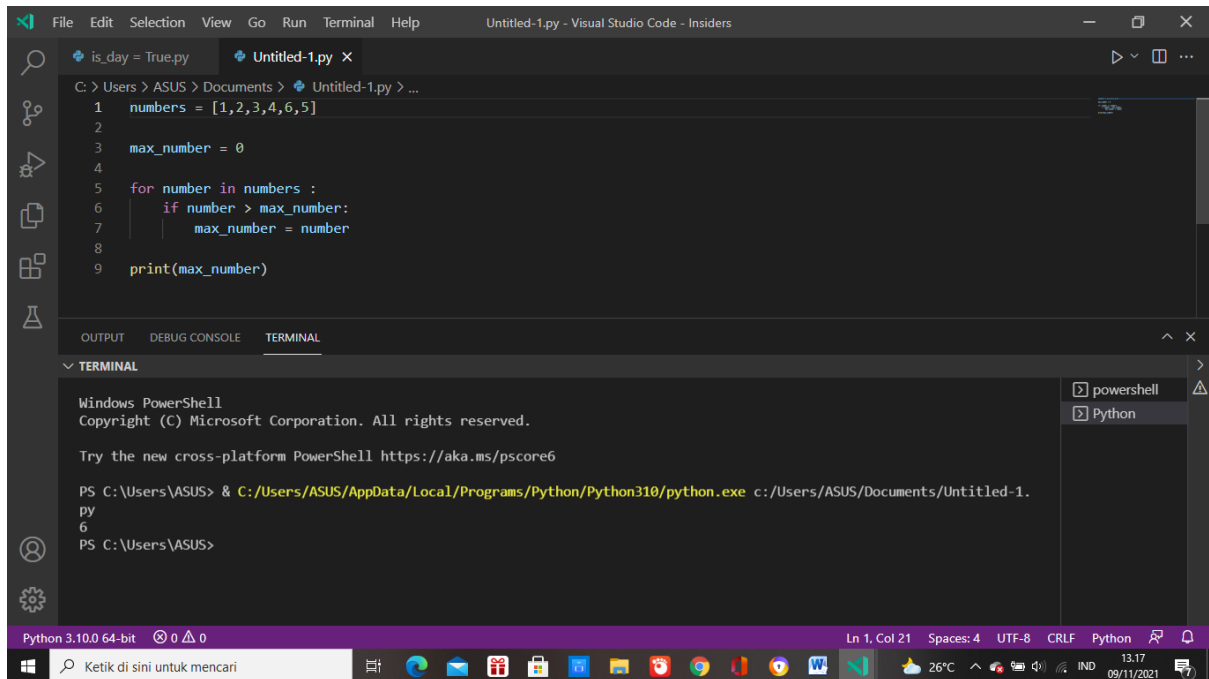
The terminal window at the bottom shows the output of the script:

```
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/Untitled-1.py
1
3
6
10
15
PS C:\Users\ASUS>
```

## 5. Mencari nilai MAX



The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

```
is_day = True.py
Untitled-1.py x
C: > Users > ASUS > Documents > Untitled-1.py > ...
1 numbers = [1,2,3,4,6,5]
2
3 max_number = 0
4
5 for number in numbers :
6     if number > max_number:
7         max_number = number
8
9 print(max_number)
```

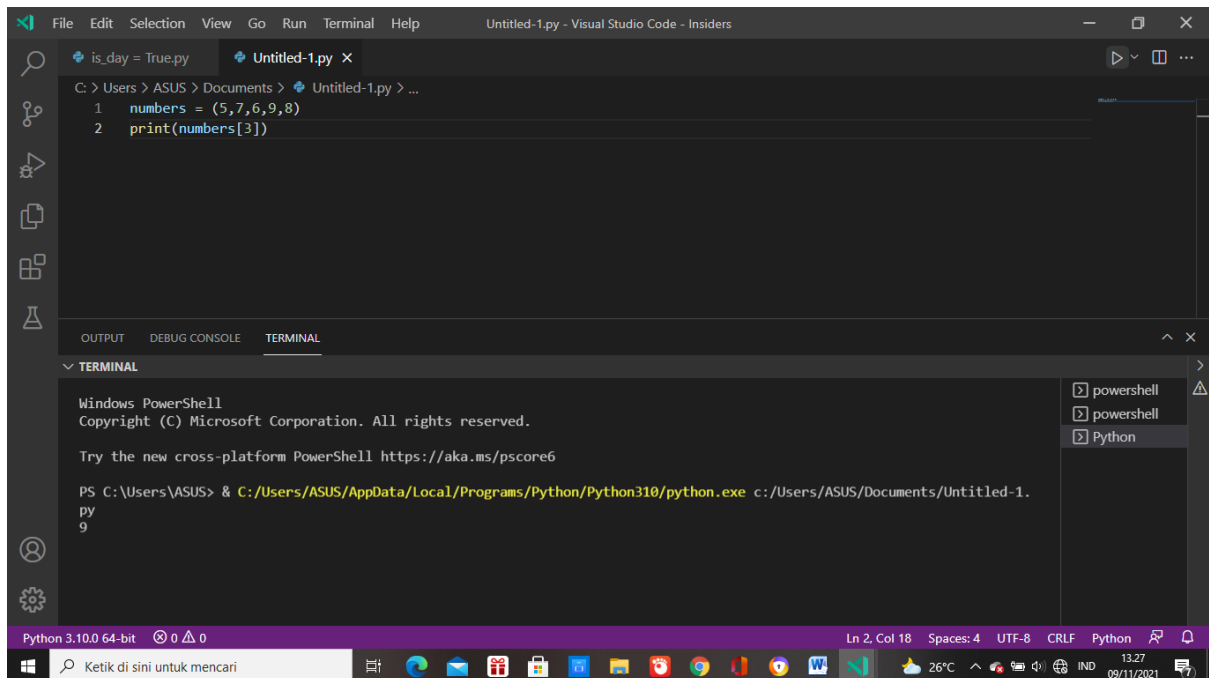
The terminal window at the bottom shows the execution of the script using Python 3.10.0 64-bit. The output is '6'.

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/Untitled-1.py
6
PS C:\Users\ASUS>
```

## 6. Tuple



The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

```
is_day = True.py
Untitled-1.py x
C: > Users > ASUS > Documents > Untitled-1.py > ...
1 numbers = (5,7,6,9,8)
2 print(numbers[3])
```

The terminal window at the bottom shows the execution of the script using Python 3.10.0 64-bit. The output is '9'.

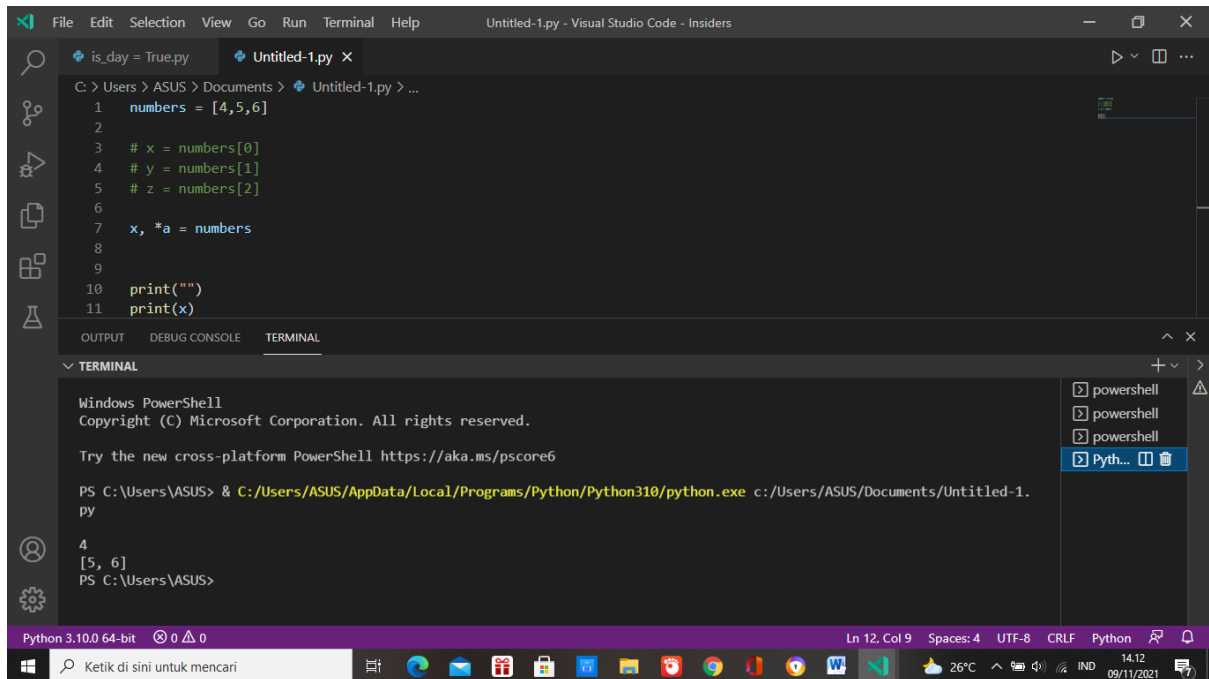
```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/Untitled-1.py
9
```

Tuple adalah nilai dalam indeks yang tidak bisa di ubah

## 7. Unpack



The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

```
is_day = True.py
Untitled-1.py x
C: > Users > ASUS > Documents > Untitled-1.py > ...
1 numbers = [4,5,6]
2
3 # x = numbers[0]
4 # y = numbers[1]
5 # z = numbers[2]
6
7 x, *a = numbers
8
9
10 print("")
11 print(x)
```

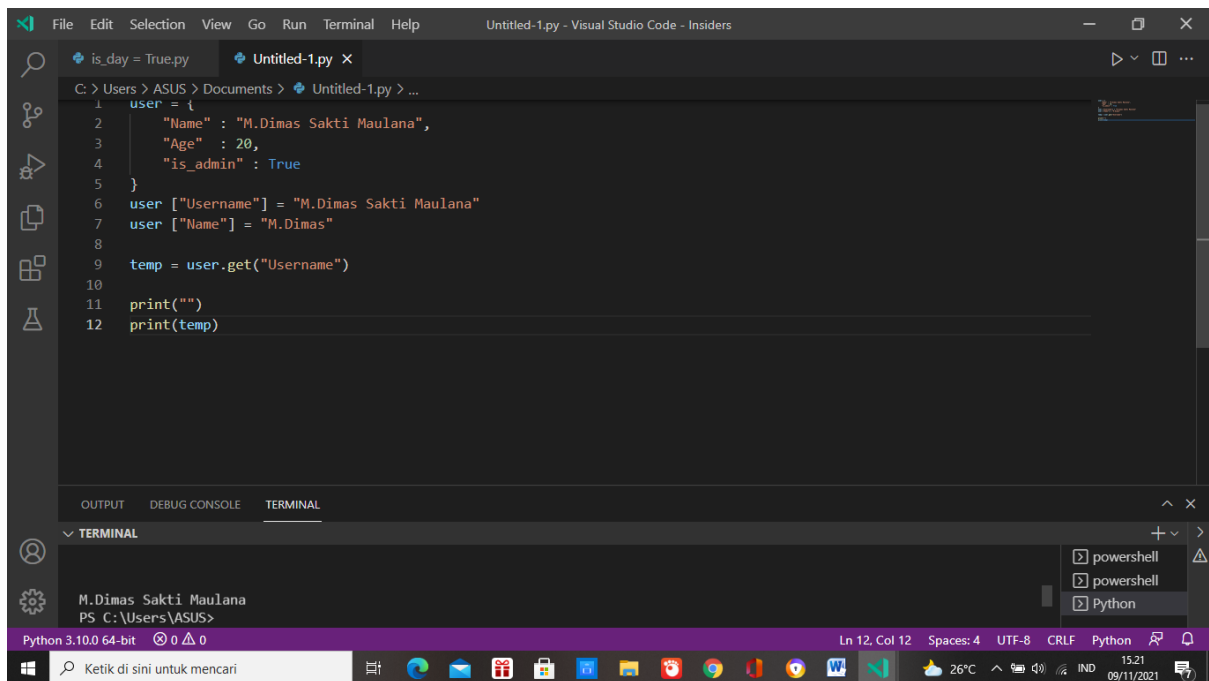
The terminal window at the bottom shows the execution of the script using Python 3.10.0 64-bit. The output is:

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

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/Untitled-1.py
[5, 6]
PS C:\Users\ASUS>
```

## 8. Dictionary



The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code in the editor is as follows:

```
is_day = True.py
Untitled-1.py x
C: > Users > ASUS > Documents > Untitled-1.py > ...
1 user = {
2     "Name" : "M.Dimas Sakti Maulana",
3     "Age" : 20,
4     "is_admin" : True
5 }
6 user ["Username"] = "M.Dimas Sakti Maulana"
7 user ["Name"] = "M.Dimas"
8
9 temp = user.get("Username")
10
11 print("")
12 print(temp)
```

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

```
M.Dimas Sakti Maulana
PS C:\Users\ASUS>
```