

# PYTHON #4 (ARTIFICIAL INTELLIGENCE)

ANGGA DWI WIBOWO

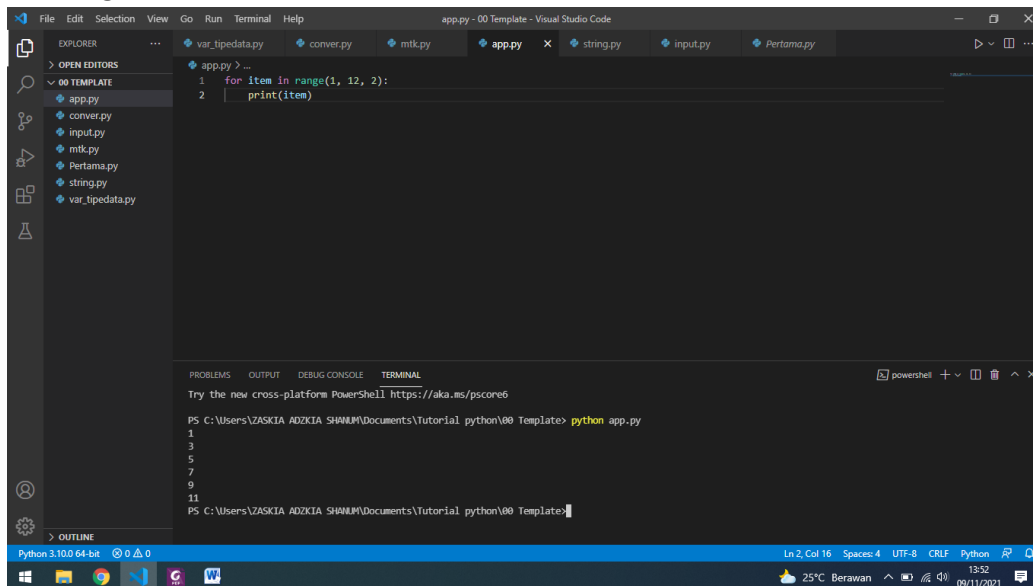
NIM. 211001123

Fakultas Rekayasa Sistem - Prodi Teknik Informatika

Universitas Teknologi Sumbawa

Jl. Raya Olat Maras, Batu Alang, Moyo Hulu, Kab.Sumbawa, NTB. 84371

## 1. Perulangan For



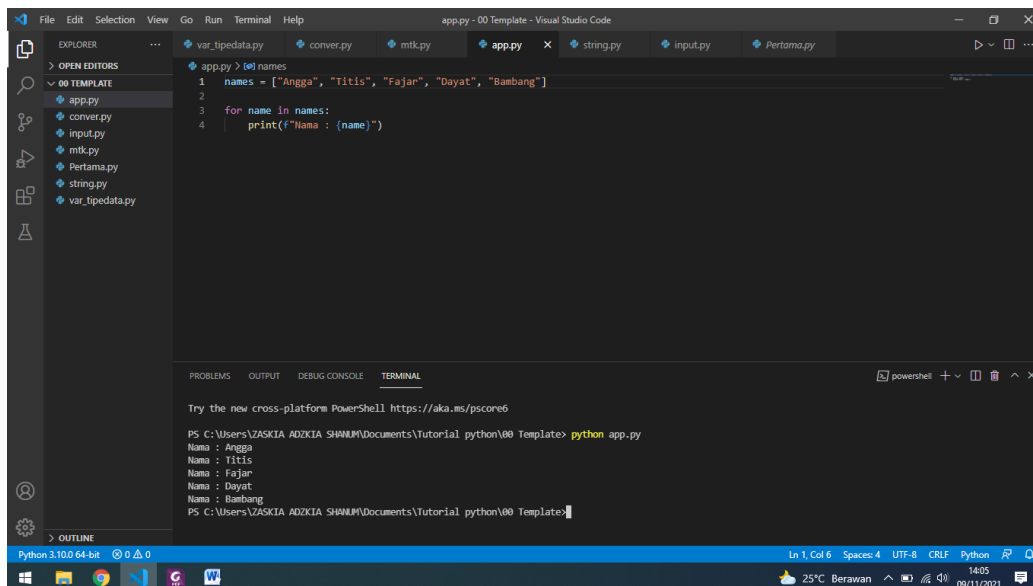
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows a project structure with files: `app.py`, `conver.py`, `input.py`, `mtk.py`, `Pertama.py`, `string.py`, and `var_tipedata.py`. The main editor displays the following code in `app.py`:

```
1 for item in range(1, 12, 2):
2     print(item)
```

The terminal at the bottom shows the command `python app.py` being executed, resulting in the output:

```
1
3
5
7
9
11
```

## 2. List



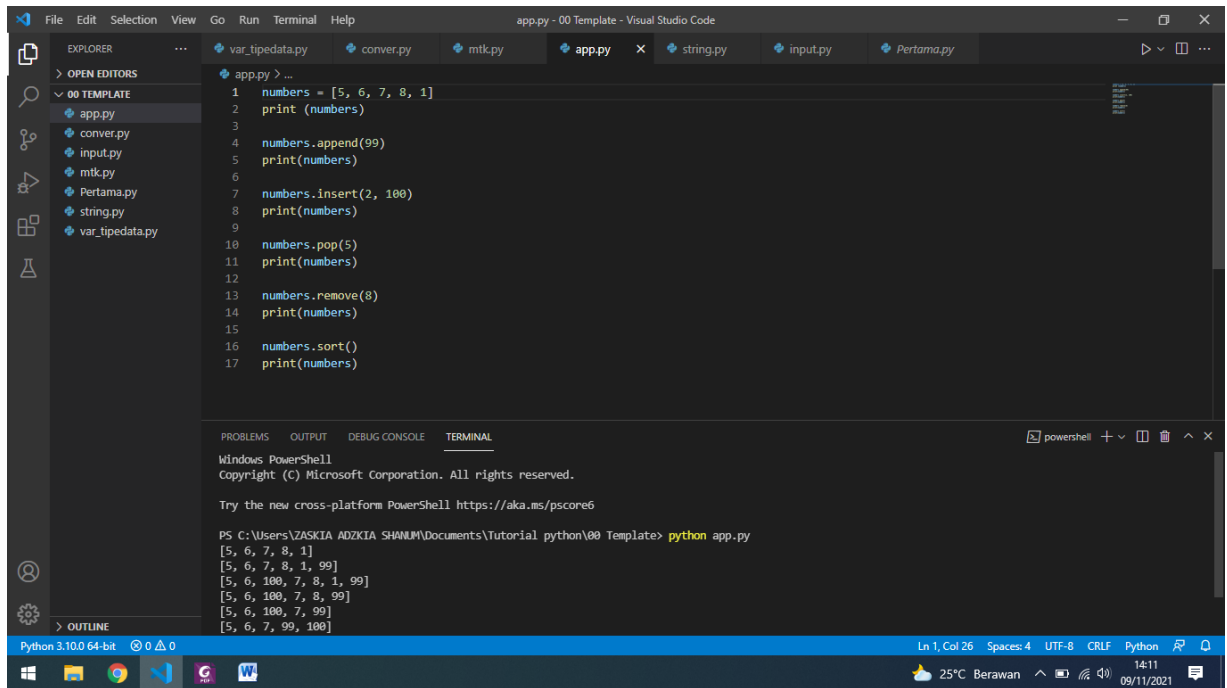
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the same project structure as the previous screenshot. The main editor displays the following code in `app.py`:

```
1 names = ["Angga", "Titis", "Fajar", "Dayat", "Bambang"]
2
3 for name in names:
4     print(f'Nama : {name}')
```

The terminal at the bottom shows the command `python app.py` being executed, resulting in the output:

```
Nama : Angga
Nama : Titis
Nama : Fajar
Nama : Dayat
Nama : Bambang
```

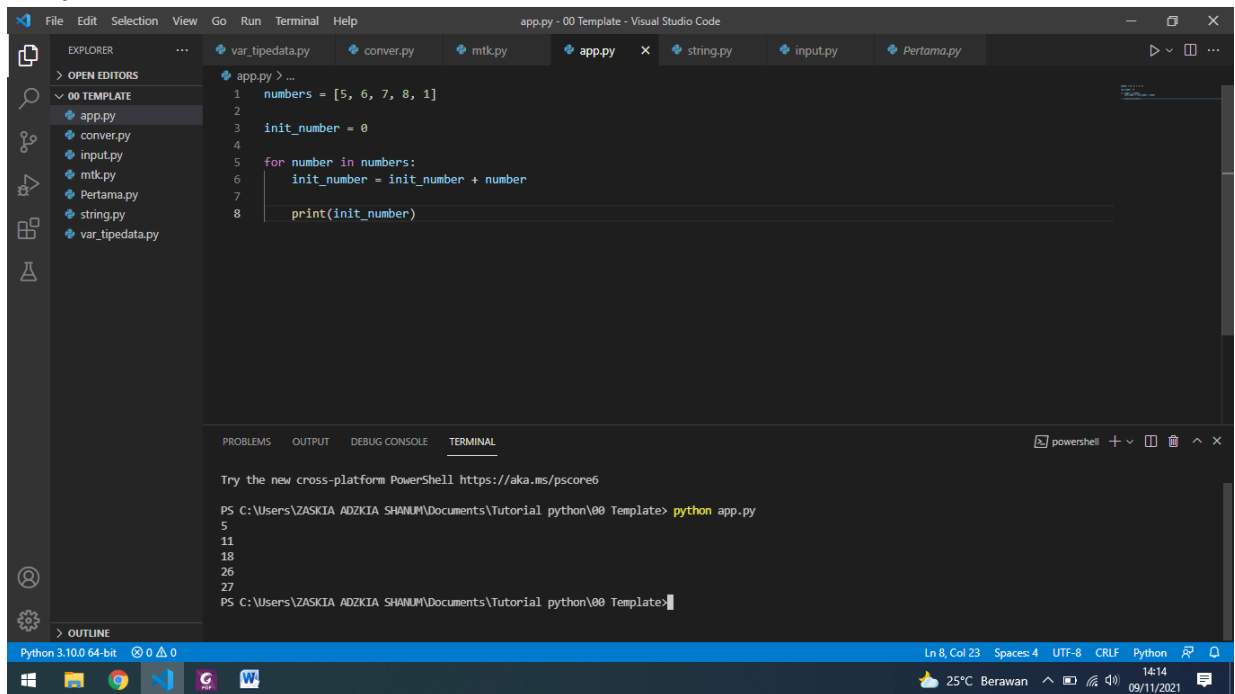
### 3. List Method



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a list `numbers` and several list methods: `print`, `append`, `insert`, `pop`, `remove`, and `sort`. The terminal at the bottom shows the command `python app.py` being executed, resulting in the following output:

```
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template> python app.py
[5, 6, 7, 8, 1]
[5, 6, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 1, 99]
[5, 6, 100, 7, 8, 99]
[5, 6, 100, 7, 99]
```

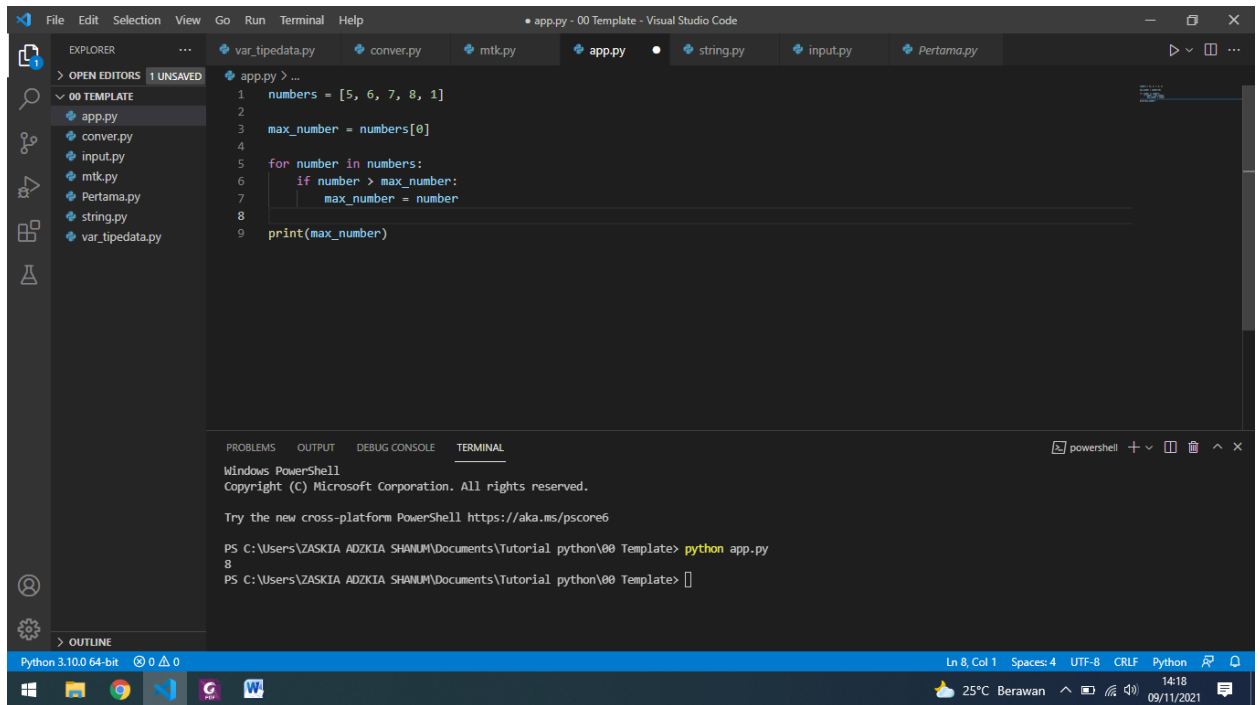
### 4. Menjumlahkan List



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a list `numbers` and a loop that calculates the sum of the list elements. The terminal at the bottom shows the command `python app.py` being executed, resulting in the following output:

```
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template> python app.py
5
11
18
26
27
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template>
```

## 5. Mencari Angka Max



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The code defines a list `numbers = [5, 6, 7, 8, 1]`, initializes `max_number = numbers[0]`, and uses a `for` loop to iterate through the list, updating `max_number` if a larger value is found. The terminal shows the command `python app.py` being executed, which outputs `8`.

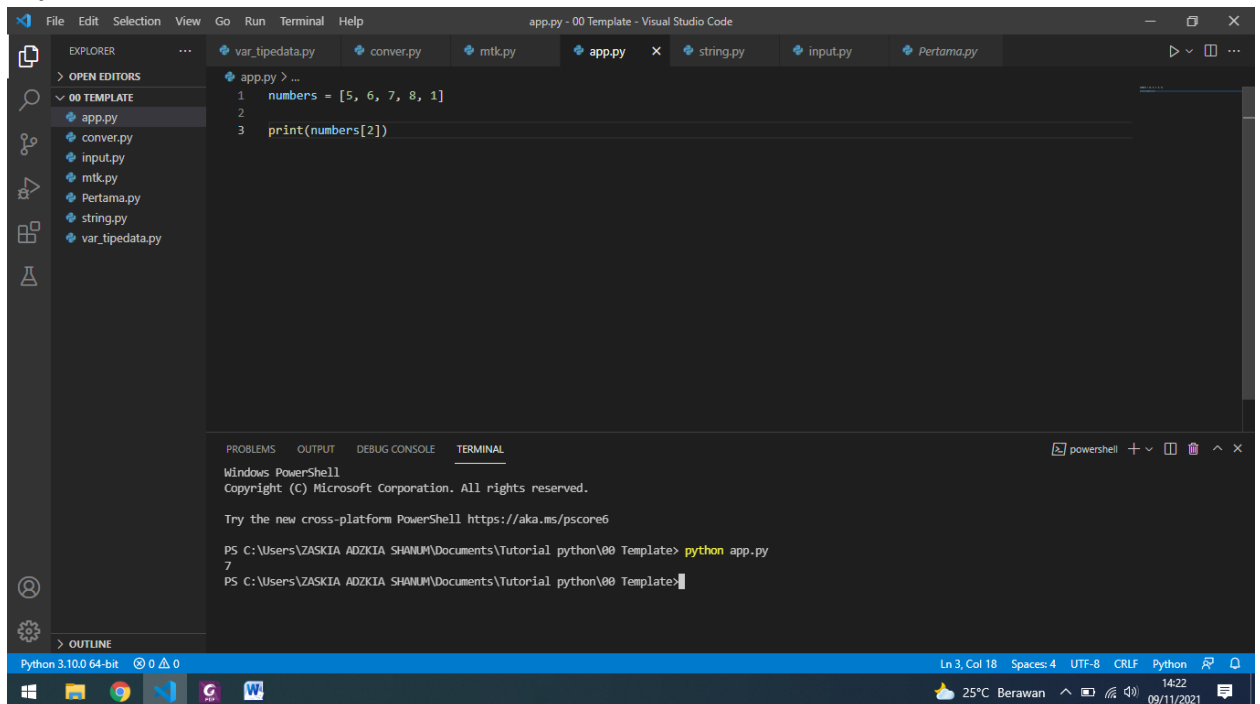
```
1 numbers = [5, 6, 7, 8, 1]
2
3 max_number = numbers[0]
4
5 for number in numbers:
6     if number > max_number:
7         max_number = number
8
9 print(max_number)
```

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

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

PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py
8
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```

## 6. Tuple



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The code defines a list `numbers = [5, 6, 7, 8, 1]` and prints the element at index 2, `numbers[2]`. The terminal shows the command `python app.py` being executed, which outputs `7`.

```
1 numbers = [5, 6, 7, 8, 1]
2
3 print(numbers[2])
```

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

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

PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py
7
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```

## 7. Unpack

```
File Edit Selection View Go Run Terminal Help
app.py - 00 Template - Visual Studio Code

EXPLORER
> OPEN EDITORS
00 TEMPLATE
  app.py
  conver.py
  input.py
  mtk.py
  Pertama.py
  string.py
  var_tipedata.py

app.py > ...
1 numbers = (1, 2, 3)
2
3 # x = numbers (0)
4 # y = numbers (1)
5 # z = numbers (2)
6
7 x, *a = numbers
8
9 print("")
10 print(x)
11 print(a)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.

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

PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py

1
[2, 3]
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```

## 8. Dictionary

```
File Edit Selection View Go Run Terminal Help
app.py - 00 Template - Visual Studio Code

EXPLORER
> OPEN EDITORS
00 TEMPLATE
  app.py
  conver.py
  input.py
  mtk.py
  Pertama.py
  string.py
  var_tipedata.py

app.py > ...
1 user = {
2     "name": "Angga Dwi Wibowo",
3     "age": 27,
4     "is_admin": True
5 }
6
7 user["username"] = "Angga Dwi"
8 user["name"] = "Angga Dwi W."
9
10 temp = user.get("name")
11
12 print("")
13 print(temp)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.

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

PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py

Angga Dwi W.
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```