

PYTHON #5 (ARTIFICIAL INTELLIGENCE)

ANGGA DWI WIBOWO

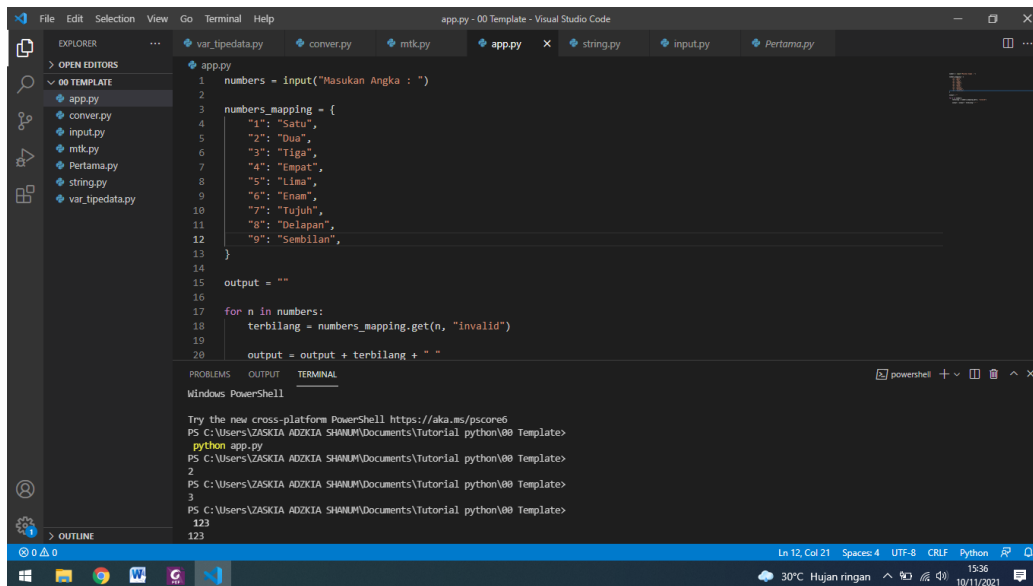
NIM. 211001123

Fakultas Rekayasa Sistem - Prodi Teknik Informatika

Universitas Teknologi Sumbawa

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1. Aplikasi Terbilang



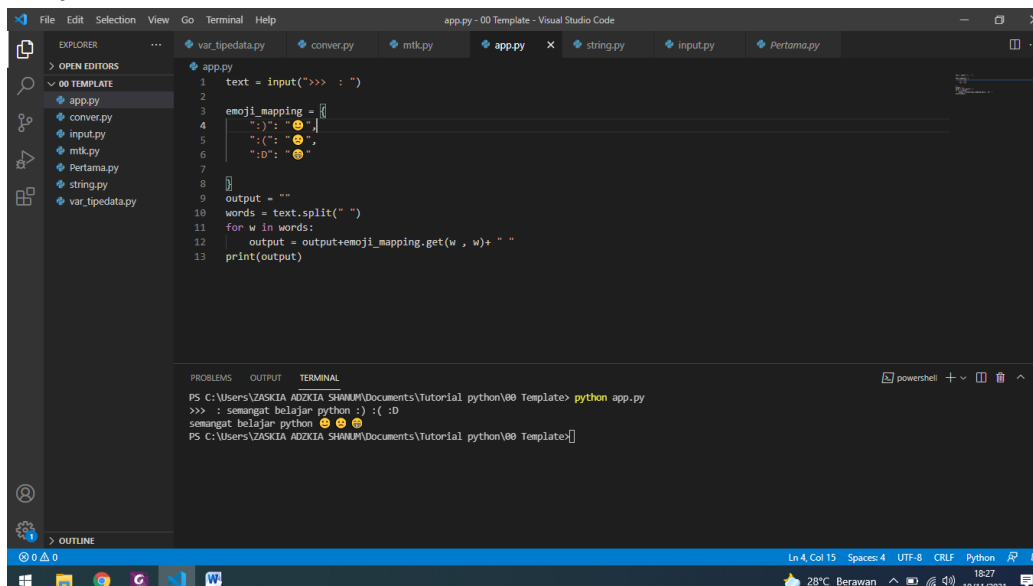
```
File Edit Selection View Go Terminal Help
app.py - 00 Template - Visual Studio Code

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

00 TEMPLATE
  app.py
  conver.py
  input.py
  mtk.py
  Pertama.py
  string.py
  var_tipedata.py

app.py
1 numbers = input("Masukan Angka : ")
2
3 numbers_mapping = {
4     "1": "Satu",
5     "2": "Dua",
6     "3": "Tiga",
7     "4": "Empat",
8     "5": "Lima",
9     "6": "Enam",
10    "7": "Tujuh",
11    "8": "Delapan",
12    "9": "Sembilan",
13 }
14
15 output = ""
16
17 for n in numbers:
18     terbilang = numbers_mapping.get(n, "invalid")
19     output = output + terbilang + " "
20
PROBLEMS OUTPUT TERMINAL
Windows PowerShell
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template> python app.py
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template>
2
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template>
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template>
123
Ln 12, Col 21 Spaces: 4 UTF-8 CRLF Python 15:36 10/11/2021
```

2. Emoji Converter



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

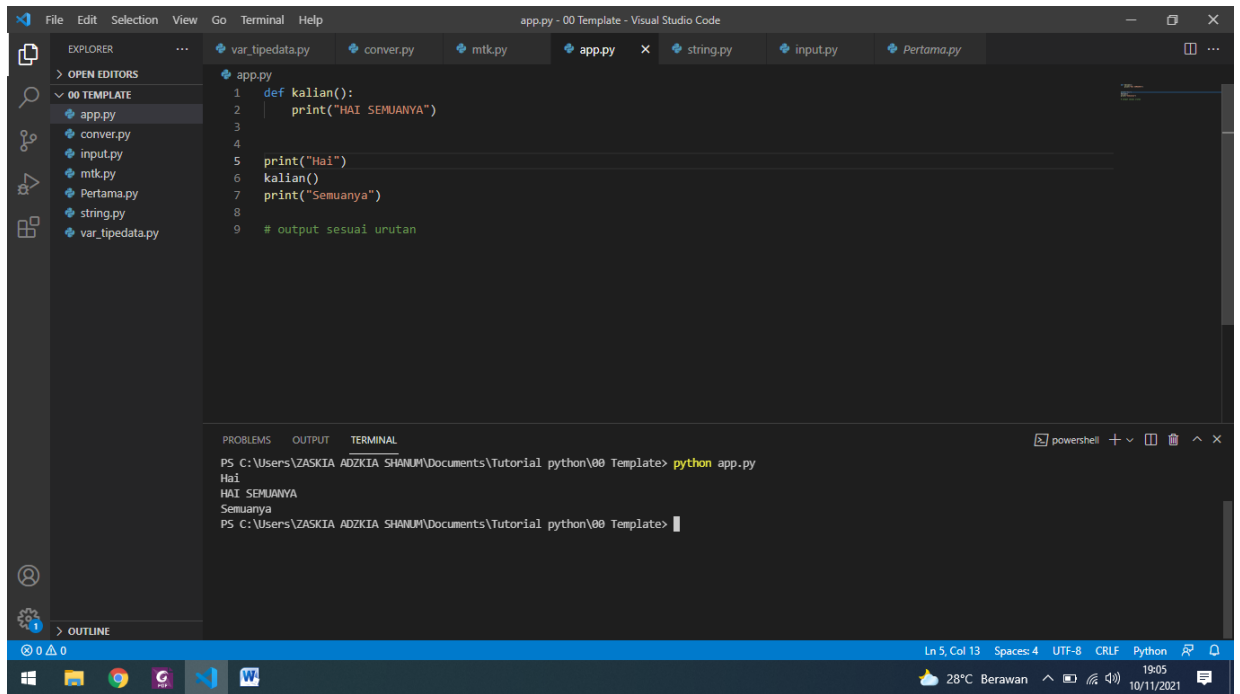
EXPLORER
> OPEN EDITORS
  app.py
  conver.py
  input.py
  mtk.py
  Pertama.py
  string.py
  var_tipedata.py

00 TEMPLATE
  app.py
  conver.py
  input.py
  mtk.py
  Pertama.py
  string.py
  var_tipedata.py

app.py
1 text = input(">>> : ")
2
3 emoji_mapping = {
4     ":)": "😊",
5     "(:(": "😭",
6     ":D": "😄",
7 }
8
9 output = ""
10 words = text.split(" ")
11 for w in words:
12     output = output+emoji_mapping.get(w, w)+ " "
13 print(output)

PROBLEMS OUTPUT TERMINAL
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template> python app.py
>>> : semangat belajar python :) :( :D
semangat belajar python 😊😭😄
PS C:\Users\ZASKIA ADZKIA SHAMM\Documents\Tutorial python\00 Template>
Ln 4, Col 15 Spaces: 4 UTF-8 CRLF Python 18:27 10/11/2021
```

3. Fungsi



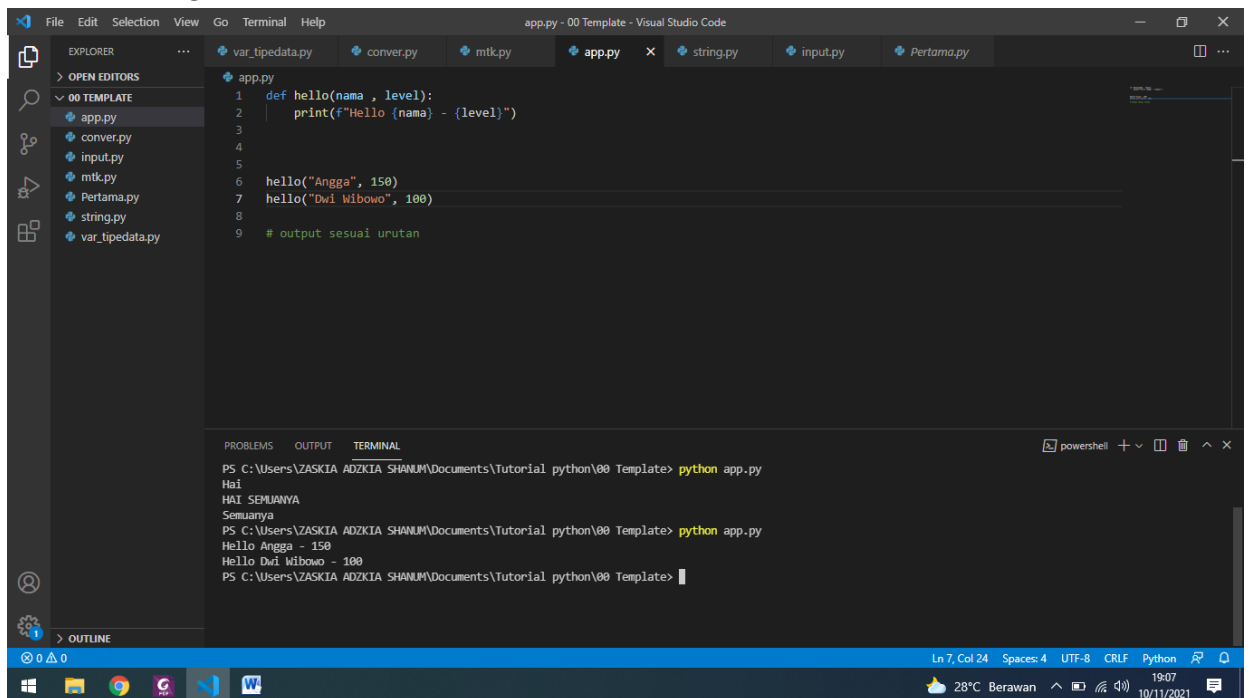
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a function `kalian()` that prints "HAI SEMUANYA". The terminal shows the command `python app.py` being executed, resulting in the output "Hai", "HAI SEMUANYA", and "Semuanya".

```
def kalian():  
    print("HAI SEMUANYA")  
  
print("Hai")  
kalian()  
print("Semuanya")  
  
# output sesuai urutan
```

Terminal Output:

```
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template> python app.py  
Hai  
HAI SEMUANYA  
Semuanya  
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template>
```

4. Parameter Fungsi



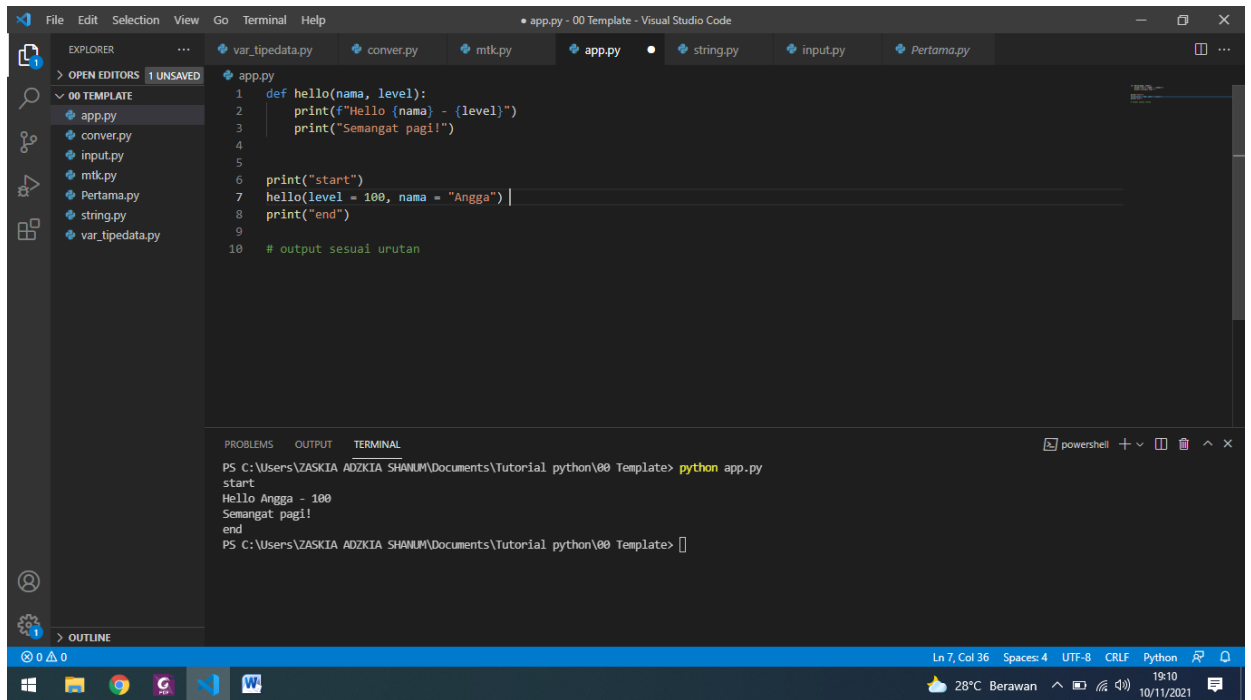
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a function `hello(nama, level)` that prints "Hello {nama} - {level}". The terminal shows the command `python app.py` being executed, resulting in the output "Hai", "HAI SEMUANYA", "Semuanya", "Hello Angga - 150", and "Hello Dwi Wibowo - 100".

```
def hello(nama, level):  
    print(f"Hello {nama} - {level}")  
  
hello("Angga", 150)  
hello("Dwi Wibowo", 100)  
  
# output sesuai urutan
```

Terminal Output:

```
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template> python app.py  
Hai  
HAI SEMUANYA  
Semuanya  
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template> python app.py  
Hello Angga - 150  
Hello Dwi Wibowo - 100  
PS C:\Users\ZASKIA ADZKIA SHANUM\Documents\Tutorial python\00 Template>
```

5. Keyword Argument



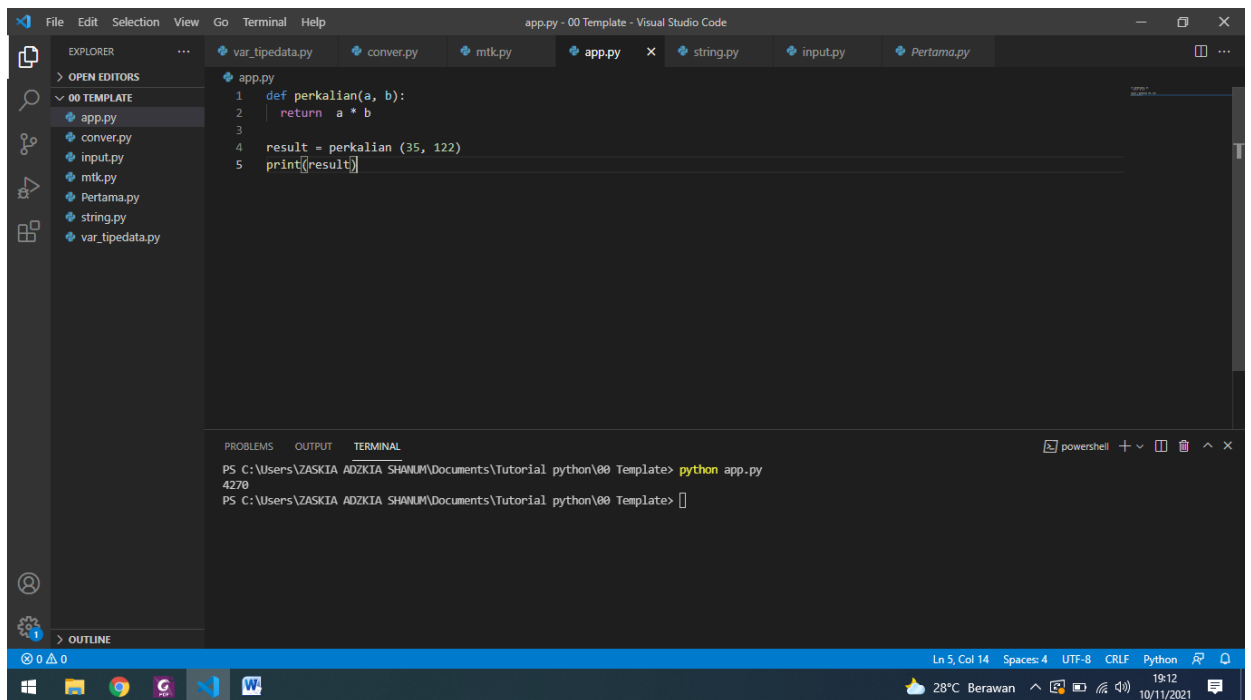
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a function `hello` that takes `nama` and `level` as arguments. The function prints a greeting and a motivational message. The code is as follows:

```
1 def hello(nama, level):
2     print(f"Hello {nama} - {level}")
3     print("Semangat pagi!")
4
5
6 print("start")
7 hello(level = 100, nama = "Angga")
8 print("end")
9
10 # output sesuai urutan
```

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

```
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py
start
Hello Angga - 100
Semangat pagi!
end
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```

6. Return Value



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file contains a function `perkalian` that takes two arguments `a` and `b` and returns their product. The code is as follows:

```
1 def perkalian(a, b):
2     return a * b
3
4 result = perkalian(35, 122)
5 print(result)
```

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

```
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template> python app.py
4270
PS C:\Users\ZASKIA ADZKIA SHAMUM\Documents\Tutorial python\00 Template>
```

