

## Membaca CSV

The screenshot shows a Visual Studio Code (VS Code) interface. The left side displays a code editor with a Python script named 'Membaca CSV.py'. The code reads a CSV file named 'football.csv' and prints each row's content (Nama, Club, Posisi) to the terminal. The right side shows a terminal window running on Windows PowerShell, displaying the output of the script.

```
1  print("\n")
2
3  import csv
4  football = open("football.csv", "r")
5
6  list = csv.reader(football, delimiter=",")
7
8  for football_csv in list:
9      print(f"Nama : {football_csv[0]} - Club : {football_csv[1]} - Posisi : {football_csv[-1]$")
10
11 football.close()
12 print("\n")
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell  
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```
PS D:\TI\AI\Python 7> & 'C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\User\.vscode\extensions\ms-python.python-2021.1.1422169775\pythonFiles\lib\python\debugpy\launcher' '50744' '--' 'd:\TI\AI\Python 7\Membaca CSV.py'

Nama : Messi - Club : PSG - Posisi : Penyerang
Nama : Kante - Club : Chelsea - Posisi : Gelandang
Nama : Pique - Club : Barcelona - Posisi : Bek
Nama : Allison - Club : Liverpool - Posisi : Kiper

PS D:\TI\AI\Python 7>
```

## With Block

The screenshot shows a VS Code interface with the following details:

- File Explorer:** Shows files "Membaca CSV.py", "With Block.py", and "football.csv".
- Code Editor:** Displays the content of "With Block.py":

```
1 print("\n")
2
3 import csv
4 with open("football.csv", "r") as football:
5     list = csv.reader(football, delimiter=",")
6
7     for football_csv in list:
8         print(f"Nama : {football_csv[0]} - Club : {football_csv[1]} - Posisi : {football_csv[-1]}\n")
9
10 print("\n")
```

- Terminal:** Shows the output of running the script:

```
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PS D:\TI\AI\Python 7> & 'C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\User\.vscode\extensions\ms-python.python-2021.1.1422169775\pythonFiles\lib\python\debugpy\launcher' '55087' '--' 'd:\TI\AI\Python 7\With Block.py'

Nama : Messi - Club : PSG - Posisi : Penyerang
Nama : Kante - Club : Chelsea - Posisi : Gelandang
Nama : Pique - Club : Barcelona - Posisi : Bek
Nama : Allison - Club : Liverpool - Posisi : Kiper

PS D:\TI\AI\Python 7>
```

## Module

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface with two open files:

- Module.py** (active tab):

```
1 print("\n")
2
3 import Kalkulator
4 from Kalkulator import multiply
5
6 hasil = Kalkulator.divide(20, 10)
7 print("Hasil Pembagian nya adalah : ",hasil)
8
9 hasil = multiply(5, 8)
10 print("Hasil Perkalian nya adalah : ",hasil)
11 print("\n")
```
- Kalkulator.py**:

```
1 # fungsi penjumlahan
2 def add(x, y):
3     return x + y
4 # fungsi pengurangan
5 def subtract(x, y):
6     return x - y
7 # fungsi perkalian
8 def multiply(x, y):
9     return x * y
10 # fungsi pembagian
11 def divide(x, y):
12     return x / y
```

The terminal at the bottom shows the execution of the code:

```
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PS D:\TI\AI\Python 7> & 'C:\Users\User\AppData\Local\Programs\Python\Python39\python.1.1422169775\pythonFiles\lib\python\debugpy\launcher' '61590' '--' 'd:\TI\AI\Python 7\Hasil Pembagian nya adalah : 2.0
Hasil Perkalian nya adalah : 40
PS D:\TI\AI\Python 7> d; cd 'd:\TI\AI\Python 7'; & 'C:\Users\User\AppData\Local\Programs\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '61590' -- 'd:\TI\AI\Python 7\Kalkulator.py'
Hasil Pembagian nya adalah : 2.0
Hasil Perkalian nya adalah : 40

PS D:\TI\AI\Python 7>
```

## Package

Membaca CSV.py    With Block.py    Module.py    **\_\_init\_\_.py** X    Kalkulator.py Matematika    Kalkulator.py \

Matematika > \_\_init\_\_.py > ...

```
1 print("\n")
2
3 from Kalkulator import multiply,add
4
5 hasil = multiply(4,8)
6 print("Hasil Perkalian nya adalah : ",hasil)
7
8 hasil = add(10,7)
9 print("Hasil Perjumlahan nya adalah : ",hasil)
10
11 print("\n")
12
```

PROBLEMS    OUTPUT    TERMINAL    DEBUG CONSOLE

Python Debug Console + ▾ ▷ ⌂ ⌄ ⌁ ×

Windows PowerShell  
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PS D:\TI\AI\Python 7> & 'C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\User\.vscode\extensions\ms-python.python-2021.1.1422169775\pythonFiles\lib\python\debugpy\launcher' '50525' '--' 'd:\TI\AI\Python 7\Matematika\\_\_init\_\_.py'

Hasil Perkalian nya adalah : 32  
Hasil Perjumlahan nya adalah : 17

PS D:\TI\AI\Python 7> █

## Random

The screenshot shows a Visual Studio Code (VS Code) interface with a dark theme. The top navigation bar has tabs for "Membaca CSV.py", "With Block.py", "Module.py", " \_\_init\_\_.py", "Random.py" (which is currently active), "Kalkulator.py Matematika", and "Kalkulator". Below the tabs, there is a code editor window containing the following Python code:

```
1 print("\n")
2
3 import random
4
5 for index in range(9):
6     print(random.randint(1,20))#
7
8 print("\n")
9
```

Below the code editor, the status bar shows "PROBLEMS", "OUTPUT", "TERMINAL" (which is selected), and "DEBUG CONSOLE". To the right of the status bar is a "Python Debug Console" tab with a "+" icon and other icons.

The terminal window below displays the output of the script execution:

```
Windows PowerShell
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PS D:\TI\AI\Python 7> & 'C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\User\.vscode\extensions\ms-python.python-2021.1
1.1422169775\pythonFiles\lib\python\debugpy\launcher' '53208' '--' 'd:\TI\AI\Python 7\Random.py'

10
16
5
10
12
5
4
19
4
```

The terminal prompt "PS D:\TI\AI\Python 7>" is visible at the bottom left of the terminal window.

## PIP dan Virtualenv

The screenshot shows a Visual Studio Code (VS Code) interface. The top left shows a file tab for 'PIP dan Virtualenv.py'. The top right has icons for file operations. Below the tabs is a breadcrumb navigation bar: D: > TI > AI > Python 7 > PIP dan Virtualenv.py. The main code editor area contains the following Python script:

```
D: > TI > AI > Python 7 > PIP dan Virtualenv.py
1 import cowsay
2
3 cowsay.cow("Hallo apa kabarmu??")
4 print("\n")
```

Below the code editor are tabs for PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE. The TERMINAL tab is active, showing a Windows PowerShell session. The output in the terminal is:

```
Windows PowerShell
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PS C:\Users\User\Downloads\cowsay-4.0> & "C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe" 'c:\Users\User\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '65294' '--' 'd:\TI\AI\Python 7\PIP dan Virtualenv.py'

| Hallo apa kabarmu?? |
=====
 \ \
  ^ ^ 
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 (__)\       )\/\
    ||----w |
    ||     ||
```

The terminal window also includes a title bar 'Python Debug Console' and standard window control buttons.