

TUGAS PRAKTIKUM #2 (ARTIFICIAL INTELLIGENCE)

ANGGA DWI WIBOWO

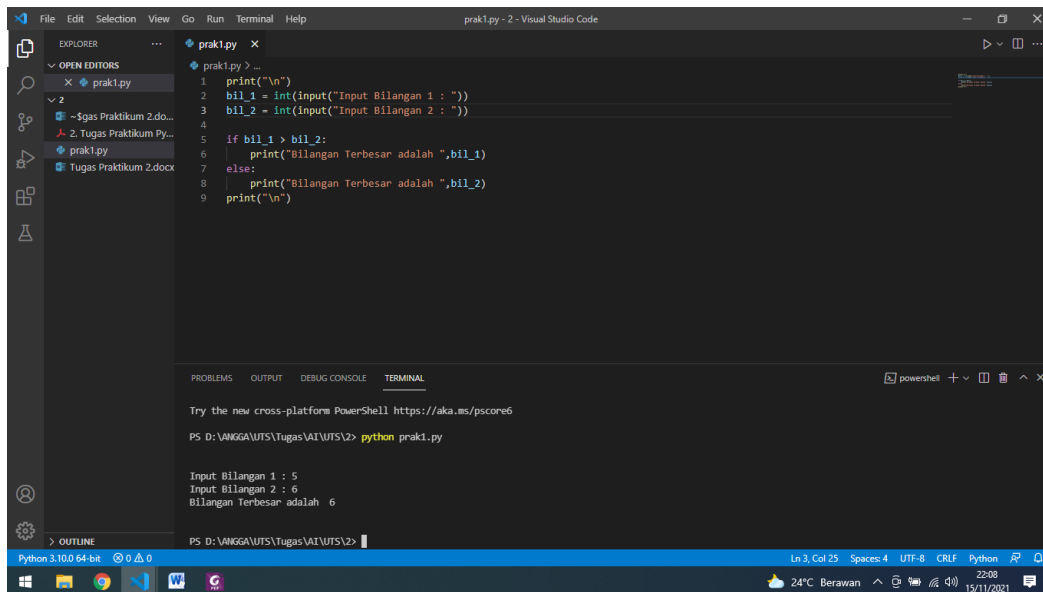
NIM. 211001123

Fakultas Rekayasa Sistem - Prodi Teknik Informatika

Universitas Teknologi Sumbawa

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

5.7 Praktikum #1



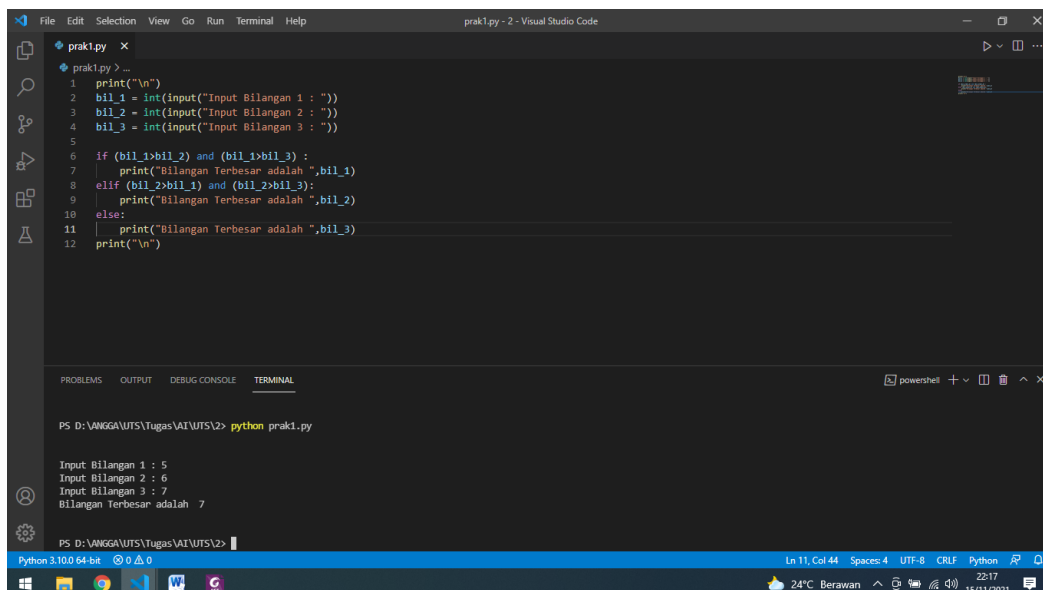
The screenshot shows the Visual Studio Code interface with a file named `prak1.py` open. The code is a Python script that takes two inputs and prints the maximum of the two. The terminal shows the execution of the script with inputs 5 and 6, resulting in the output 6.

```
1 print("\n")
2 bil_1 = int(input("Input Bilangan 1 : "))
3 bil_2 = int(input("Input Bilangan 2 : "))
4
5 if bil_1 > bil_2:
6     print("Bilangan Terbesar adalah ",bil_1)
7 else:
8     print("Bilangan Terbesar adalah ",bil_2)
9 print("\n")
```

Terminal output:

```
PS D:\VANGGA\UTS\Tugas\AI\UTS\2> python prak1.py
Input Bilangan 1 : 5
Input Bilangan 2 : 6
Bilangan Terbesar adalah 6
```

Praktikum #2



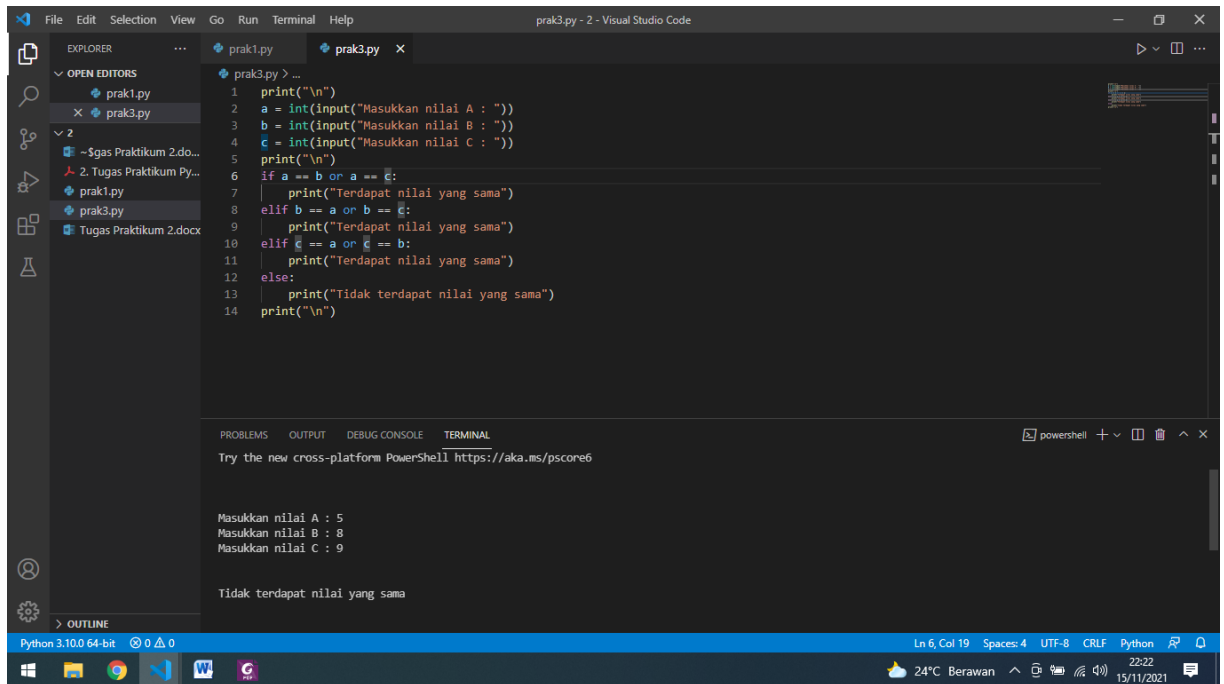
The screenshot shows the Visual Studio Code interface with a file named `prak1.py` open. The code is a Python script that takes three inputs and prints the maximum of the three. The terminal shows the execution of the script with inputs 5, 6, and 7, resulting in the output 7.

```
1 print("\n")
2 bil_1 = int(input("Input Bilangan 1 : "))
3 bil_2 = int(input("Input Bilangan 2 : "))
4 bil_3 = int(input("Input Bilangan 3 : "))
5
6 if (bil_1>bil_2) and (bil_1>bil_3):
7     print("Bilangan Terbesar adalah ",bil_1)
8 elif (bil_2>bil_1) and (bil_2>bil_3):
9     print("Bilangan Terbesar adalah ",bil_2)
10 else:
11     print("Bilangan Terbesar adalah ",bil_3)
12 print("\n")
```

Terminal output:

```
PS D:\VANGGA\UTS\Tugas\AI\UTS\2> python prak1.py
Input Bilangan 1 : 5
Input Bilangan 2 : 6
Input Bilangan 3 : 7
Bilangan Terbesar adalah 7
```

Praktikum #3



```
File Edit Selection View Go Run Terminal Help
prak3.py - 2 - Visual Studio Code

EXPLORER
OPEN EDITORS
  prak1.py
  prak3.py
  ~$gas Praktikum 2.do...
  2. Tugas Praktikum Py...
  prak1.py
  prak3.py
  Tugas Praktikum 2.docx

praktikum > ...
1 print("\n")
2 a = int(input("Masukkan nilai A : "))
3 b = int(input("Masukkan nilai B : "))
4 c = int(input("Masukkan nilai C : "))
5 print("\n")
6 if a == b or a == c:
7     print("Terdapat nilai yang sama")
8 elif b == a or b == c:
9     print("Terdapat nilai yang sama")
10 elif c == a or c == b:
11     print("Terdapat nilai yang sama")
12 else:
13     print("Tidak terdapat nilai yang sama")
14 print("\n")

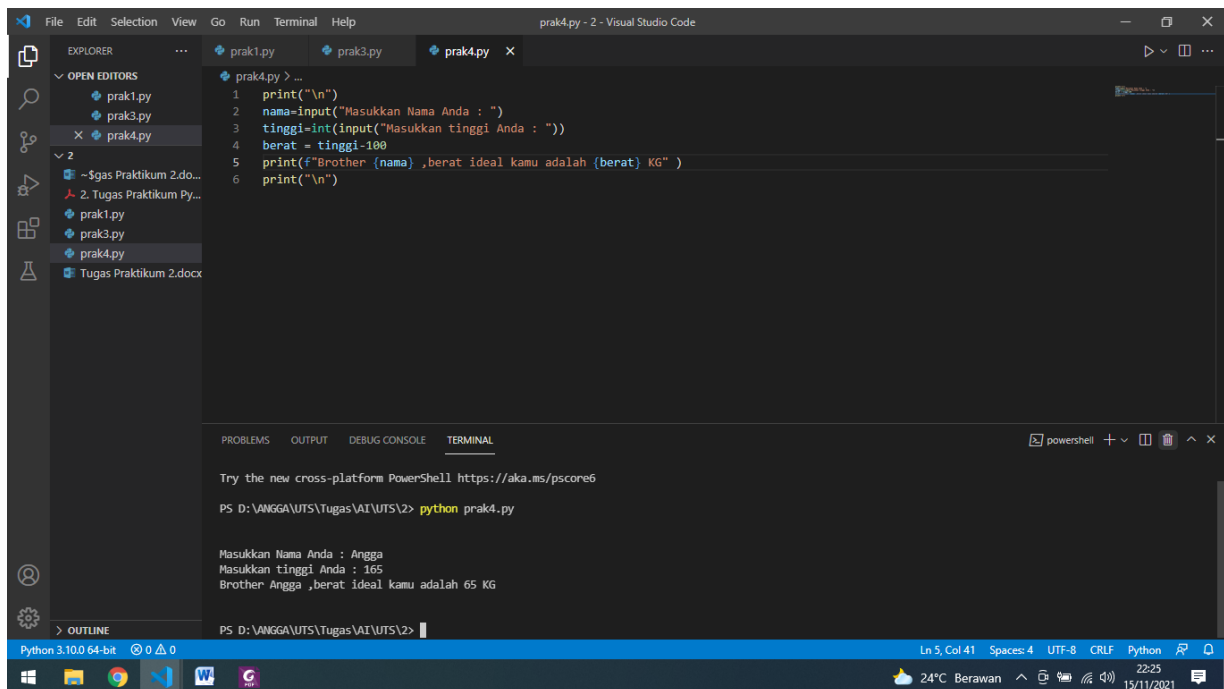
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Try the new cross-platform PowerShell https://aka.ms/pscore6

Masukkan nilai A : 5
Masukkan nilai B : 8
Masukkan nilai C : 9

Tidak terdapat nilai yang sama

Python 3.10.0 64-bit 0 0 0
Ln 6, Col 19 Spaces: 4 UTF-8 CRLF Python 22:22 15/11/2021
```

Praktikum #4



```
File Edit Selection View Go Run Terminal Help
prak4.py - 2 - Visual Studio Code

EXPLORER
OPEN EDITORS
  prak1.py
  prak3.py
  prak4.py
  ~$gas Praktikum 2.do...
  2. Tugas Praktikum Py...
  prak1.py
  prak3.py
  prak4.py
  Tugas Praktikum 2.docx

praktikum > ...
1 print("\n")
2 nama=input("Masukkan Nama Anda : ")
3 tinggi=int(input("Masukkan tinggi Anda : "))
4 berat = tinggi-100
5 print(f"Brother {nama} ,berat ideal kamu adalah {berat} KG" )
6 print("\n")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\VANGGA\UTS\Tugas\AI\UTS\2> python prak4.py

Masukkan Nama Anda : Angga
Masukkan tinggi Anda : 165
Brother Angga ,berat ideal kamu adalah 65 KG

PS D:\VANGGA\UTS\Tugas\AI\UTS\2>

Python 3.10.0 64-bit 0 0 0
Ln 5, Col 41 Spaces: 4 UTF-8 CRLF Python 22:25 15/11/2021
```

Praktikum #5

The image displays two screenshots of the Visual Studio Code editor, showing the development and execution of a Python program for calculating student grades.

Top Screenshot: The editor shows the file `prak5.py` with the following code:

```
1 print("\n")
2 nama = input("Masukkan nama : ")
3 tugas = int(input("Masukkan nilai tugas : "))
4 uts = int(input("Masukkan nilai UTS : "))
5 uas = int(input("Masukkan nilai UAS : "))
6 nilai = tugas * 0.25 + uts * 0.35 + uas * 0.4
7 print("\n")
8 print("        DATA NILAI MAHASISMA        ")
9 print("-----")
10 print(f"Nama : {nama}")
11 print(f"Tugas : {tugas}")
12 print(f"UTS : {uts}")
13 print(f"UAS : {uas}")
14 print("-----")
15 print("\n")
16 if nilai >= 75:
17     print("        NILAI AKHIR DAN GRADE        ")
18     print("-----")
19     print(f"Nama : {nama}")
20     print(f"Nilai akhir = {nilai}")
21     print(f"Grade : A")
22     print("-----")
23 elif (60 <= nilai) < 75:
24     print("        NILAI AKHIR DAN GRADE        ")
25     print("-----")
26     print(f"Nama : {nama}")
27     print(f"Nilai akhir = {nilai}")
28     print(f"Grade : B")
29     print("-----")
30 elif (45 <= nilai) < 60:
31     print("        NILAI AKHIR DAN GRADE        ")
32     print("-----")
33     print(f"Nama : {nama}")
```

Bottom Screenshot: The editor shows the same file `prak5.py` with the following code:

```
37 elif nilai <= 45:
38     print("        NILAI AKHIR DAN GRADE        ")
39     print("-----")
40     print(f"Nama : {nama}")
41     print(f"Nilai akhir = {nilai}")
42     print(f"Grade : D")
43     print("-----")
44     print("\n")
```

The terminal window shows the execution of the program:

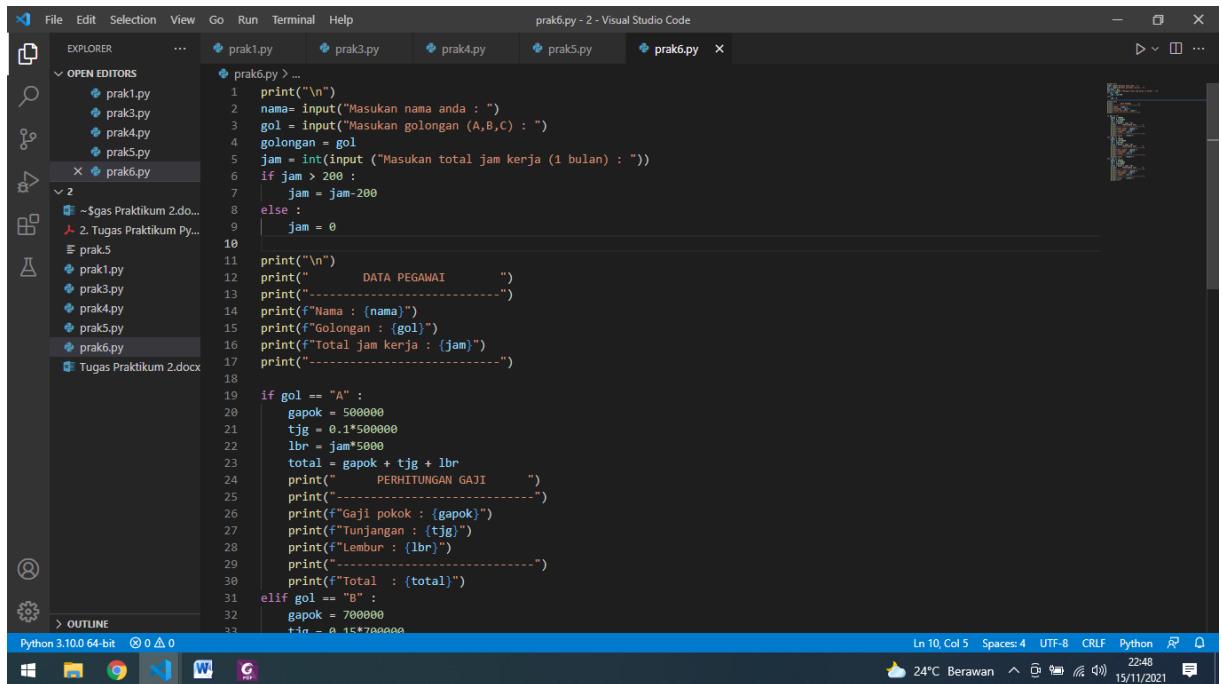
```
PS D:\VANGGA\UTS\Tugas\AI\UTS\2> python prak5.py

Masukkan nama : Angga Dwi W
Masukkan nilai tugas : 80
Masukkan nilai UTS : 85
Masukkan nilai UAS : 85

        DATA NILAI MAHASISMA
-----
Nama : Angga Dwi W
Tugas : 80
UTS : 85
UAS : 85
-----

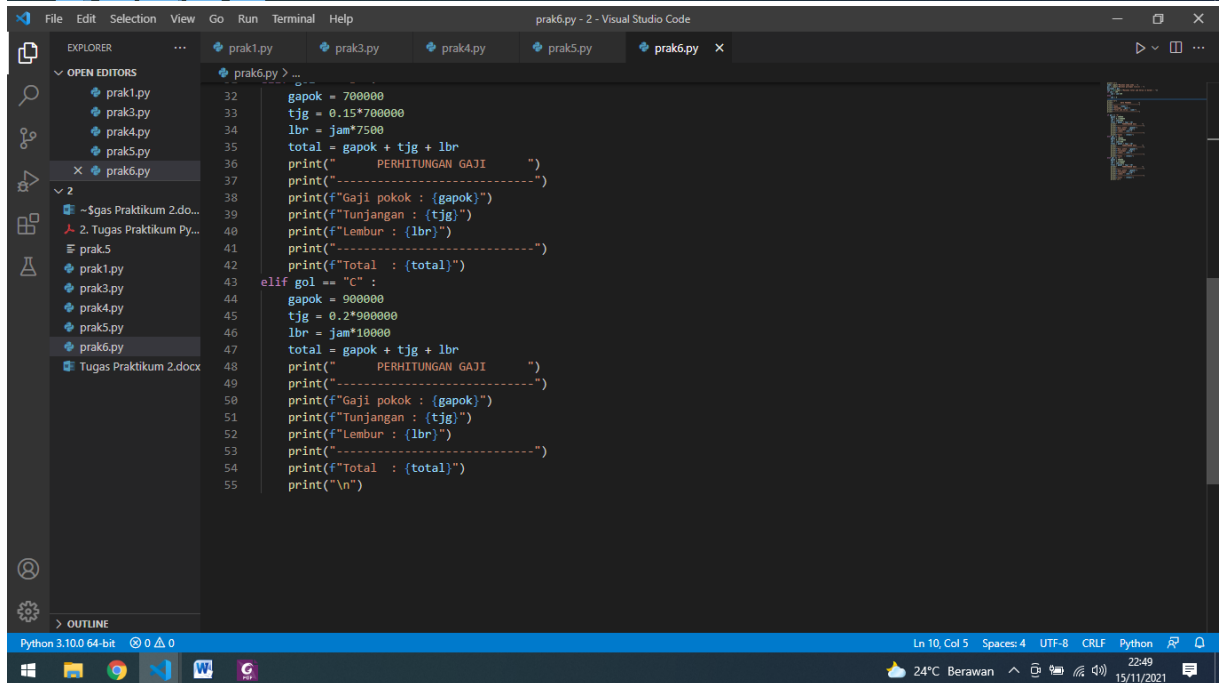
        NILAI AKHIR DAN GRADE
-----
Nama : Angga Dwi W
Nilai akhir = 83.75
Grade : A
-----
```

Praktikum #6



The screenshot shows the Visual Studio Code editor with a Python file named `prak6.py` open. The code is a script for calculating employee salary based on their category (A, B, C) and working hours (jam). The script includes input prompts for name, category, and working hours, followed by calculations for gross salary (gapok), allowances (tjg), overtime (lbr), and total salary (total). The output is formatted with labels and values.

```
1 print("\n")
2 nama= input("Masukan nama anda : ")
3 gol = input("Masukan golongan (A,B,C) : ")
4 golongan = gol
5 jam = int(input ("Masukan total jam kerja (1 bulan) : "))
6 if jam > 200 :
7     jam = jam-200
8 else :
9     jam = 0
10
11 print("\n")
12 print("          DATA PEGAWAI          ")
13 print("-----")
14 print(f"Nama : {nama}")
15 print(f"Golongan : {gol}")
16 print(f"Total jam kerja : {jam}")
17 print("-----")
18
19 if gol == "A" :
20     gapok = 500000
21     tjg = 0.1*500000
22     lbr = jam*5000
23     total = gapok + tjg + lbr
24     print("          PERHITUNGAN GAJI          ")
25     print("-----")
26     print(f"Gaji pokok : {gapok}")
27     print(f"Tunjangan : {tjg}")
28     print(f"Lembur : {lbr}")
29     print("-----")
30     print(f"Total : {total}")
31 elif gol == "B" :
32     gapok = 700000
33     tjg = 0.15*700000
```



This screenshot shows the continuation of the Python script from the previous image. It covers the logic for category 'C' and the final output statement. The script calculates the gross salary (gapok), allowances (tjg), overtime (lbr), and total salary (total) for category 'C' based on the input working hours (jam).

```
34     lbr = jam*7500
35     total = gapok + tjg + lbr
36     print("          PERHITUNGAN GAJI          ")
37     print("-----")
38     print(f"Gaji pokok : {gapok}")
39     print(f"Tunjangan : {tjg}")
40     print(f"Lembur : {lbr}")
41     print("-----")
42     print(f"Total : {total}")
43 elif gol == "C" :
44     gapok = 900000
45     tjg = 0.2*900000
46     lbr = jam*10000
47     total = gapok + tjg + lbr
48     print("          PERHITUNGAN GAJI          ")
49     print("-----")
50     print(f"Gaji pokok : {gapok}")
51     print(f"Tunjangan : {tjg}")
52     print(f"Lembur : {lbr}")
53     print("-----")
54     print(f"Total : {total}")
55     print("\n")
```

The image shows a Visual Studio Code editor window with the file `prak6.py` open. The Explorer sidebar on the left shows a project structure with files `prak1.py`, `prak3.py`, `prak4.py`, `prak5.py`, and `prak6.py`. The main editor area displays the code for `prak6.py`:

```
41 print("-----")
42 print(f"Total : {total}")
43 elif gol == "C" :
44     gapok = 900000
45     tlg = 0.2*900000
```

Below the code editor, the TERMINAL tab is active, showing the execution of the script in a Windows PowerShell environment. The output includes user prompts and the results of the calculations:

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

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

PS D:\VANGGA\UTS\Tugas\AI\UTS\2> python prak6.py

Masukan nama anda : Angga
Masukan golongan (A,B,C) : A
Masukan total jam kerja (1 bulan) : 380

DATA PEGAWAI
-----
Nama : Angga
Golongan : A
Total jam kerja : 180
-----
PERHITUNGAN GAJI
-----
Gaji pokok : 500000
Tunjangan : 50000.0
Lembur : 900000
-----
Total : 1450000.0

PS D:\VANGGA\UTS\Tugas\AI\UTS\2> & 'C:\Users\ZASKIA ADZKIA SHAMU\AppData\Local\Programs\Python\Python310\python.exe' 'C:\Users\ZASKIA ADZKIA SHAMU\vscode\extensions\ms-python.python-2021.10.1336267007\pythonFiles\lib\python\debugpy\launcher' '50153' '--' 'C:\Users\ZASKIA ADZKIA SHAMU\Documents\Tutorial python\0
```

The status bar at the bottom indicates the editor is using Python 3.10.0 64-bit, with settings for Ln 54, Col 31, Spaces: 4, UTF-8, CRLF, and Python.