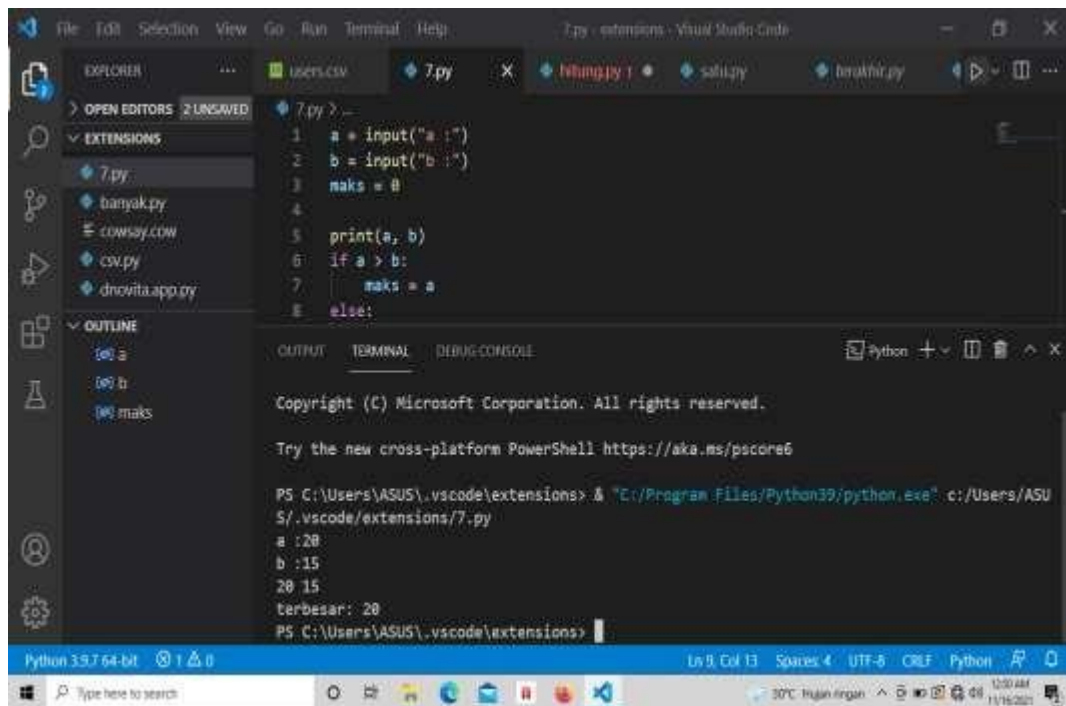


Nama : Ambar Wati
Nim : 20.01.013.001
Kelas : Kecerdasan Buatan (AI-A)

1. Program mencari bilangan terbesar dari dua buah bilangan



The screenshot shows the Visual Studio Code interface with a Python file named `7.py` open. The code in the editor is as follows:

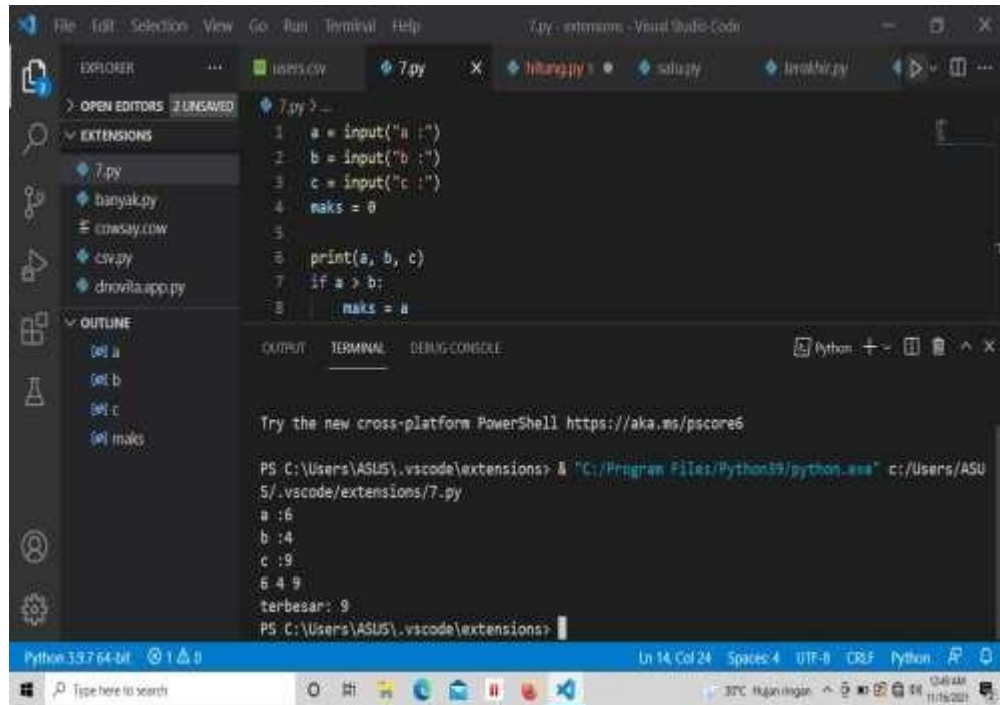
```
1 a = input("a :")
2 b = input("b :")
3 maks = 0
4
5 print(a, b)
6 if a > b:
7     maks = a
8 else:
```

The terminal window at the bottom shows the execution of the script. It prompts for input 'a' and 'b', and then prints the result:

```
PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/7.py
a :20
b :15
20 15
terbesar: 20
PS C:\Users\ASUS\.vscode\extensions>
```

The status bar at the bottom indicates the file is encoded in UTF-8 with CRLF line endings, using the Python 3.9.7 64-bit interpreter.

2. Program mencari bilangan terbesar dari tiga buah bilangan



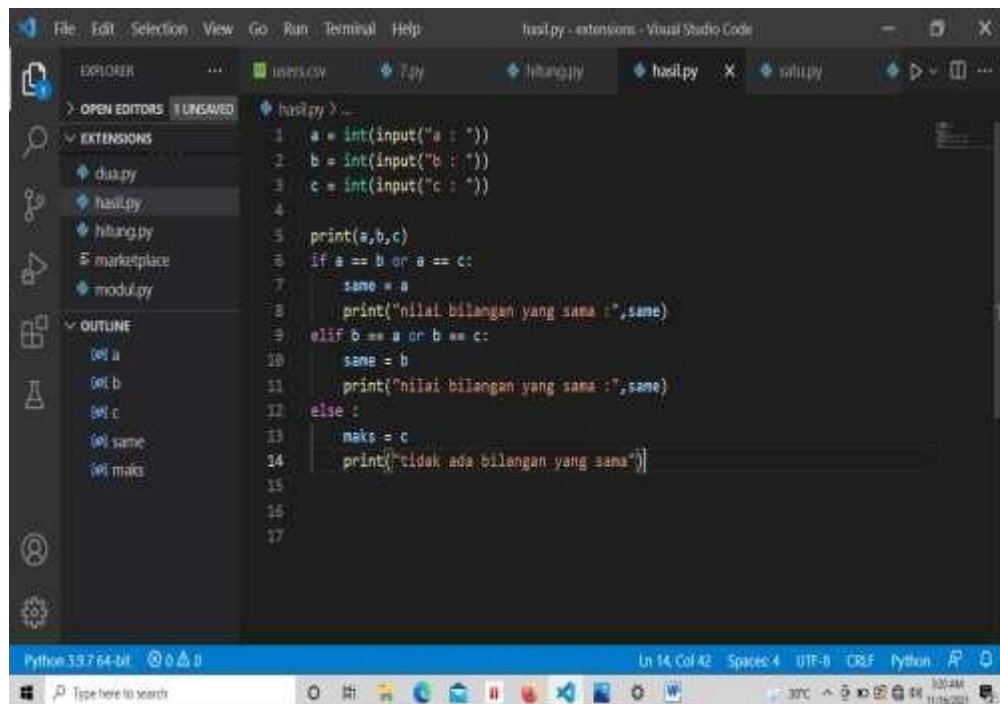
The screenshot shows the Visual Studio Code interface with a Python file named `7.py` open. The file contains the following code:

```
1 a = input("a :")
2 b = input("b :")
3 c = input("c :")
4 maks = 0
5
6 print(a, b, c)
7 if a > b:
8     maks = a
```

The terminal output shows the execution of the script with inputs 16, 14, and 9, resulting in the output 16 14 9 and the maximum value 16.

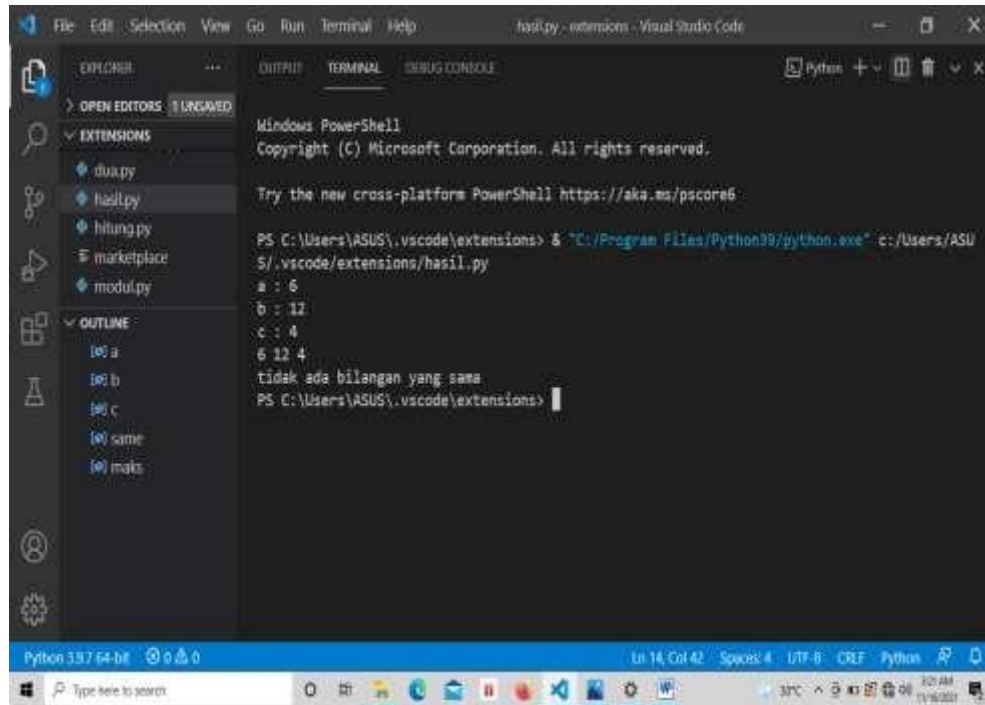
```
PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASU
S/.vscode/extensions/7.py
a :16
b :14
c :9
16 14 9
terbesar: 16
PS C:\Users\ASUS\.vscode\extensions>
```

3. Program mencari bilangan yang sama



The screenshot shows the Visual Studio Code interface with a Python file named `hasil.py` open. The file contains the following code:

```
1 a = int(input("a :"))
2 b = int(input("b :"))
3 c = int(input("c :"))
4
5 print(a,b,c)
6 if a == b or a == c:
7     same = a
8     print("nilai bilangan yang sama :",same)
9 elif b == a or b == c:
10    same = b
11    print("nilai bilangan yang sama :",same)
12 else :
13    maks = c
14    print("tidak ada bilangan yang sama")
15
16
17
```



```
File Edit Selection View Go Run Terminal Help
hasil.py - extensions - Visual Studio Code

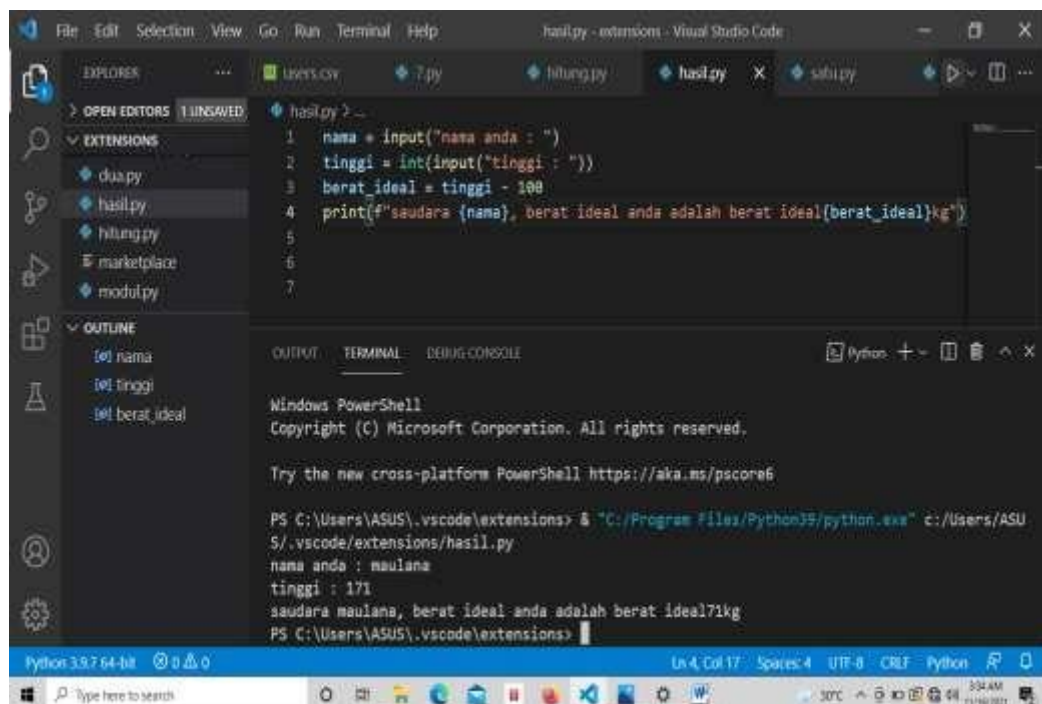
EXPLORER
OPEN EDITORS 1 UNMAVED
EXTENSIONS
dua.py
hasil.py
hitung.py
marketplace
modul.py
OUTLINE
a
b
c
same
maks

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

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/hasil.py
a : 6
b : 12
c : 4
6 12 4
tidak ada bilangan yang sama
PS C:\Users\ASUS\.vscode\extensions>
```

4. Program menghitung berat badan ideal.



```
File Edit Selection View Go Run Terminal Help
hasil.py - extensions - Visual Studio Code

EXPLORER
OPEN EDITORS 1 UNMAVED
EXTENSIONS
dua.py
hasil.py
hitung.py
marketplace
modul.py
OUTLINE
nama
tinggi
berat_ideal

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

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/hasil.py
nama anda : maulana
tinggi : 171
saudara maulana, berat ideal anda adalah berat ideal71kg
PS C:\Users\ASUS\.vscode\extensions>
```

5. Program menghitung nilai akhir dan grade mata kuliah pemrograman.

The screenshot shows the Visual Studio Code editor with a Python file named `hitung.py`. The script is designed to calculate a final grade (NA) based on three inputs: `tugas` (assignment), `uts` (midterm), and `uas` (final exam). The weights are 25% for `tugas`, 35% for `uts`, and 40% for `uas`. The final grade is calculated as $NA = (0.25 * \text{tugas}) + (0.35 * \text{uts}) + (0.40 * \text{uas})$. The script also includes a conditional statement to determine the letter grade based on the calculated NA value.

```
1 print("PROGRAM MENGHITUNG NILAI AKHIR DAN GRADE MATA KULIAH PEMROGRAMAN")
2 print("=====")
3 nama = input("masukkan nama : ")
4 nim = input("masukkan nim : ")
5 kelas = input("masukkan kelas : ")
6
7 tugas = float(input("Masukkan nilai tugas: "))#nilai tugas 25%
8 uts = int(input("Masukkan nilai uts: "))#nilai uts 35%
9 uas = int(input("Masukkan nilai uas: "))#nilai uas 40%
10 print("\nNilai grade mahasiswa")
11
12 NA = (0.25 * tugas) + (0.35 * uts) + (0.40 * uas)
13 print(f"NA")
14
15 if NA >= 75:
16     grade = "A"
17 elif 60 <= NA < 75:
18     grade = "B"
19 elif 45 <= NA < 60:
20     grade = "C"
21 elif NA < 45:
```

This screenshot shows the same Visual Studio Code editor with the `hitung.py` file. The `OUTPUT` pane is active, displaying the results of running the script. The user has entered the following inputs: `kelas: c`, `tugas: 80`, `uts: 85`, and `uas: 90`. The script has calculated the final grade (NA) as `85.75` and determined the letter grade as `B`. The terminal shows the command used to run the script: `PS C:\Users\ASUS\.vscode\extensions> "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/7.py`.

```
1 print("PROGRAM MENGHITUNG NILAI AKHIR DAN GRADE MATA KULIAH PEMROGRAMAN")
2 print("=====")
3 nama = input("masukkan nama : ")
4 nim = input("masukkan nim : ")
5 kelas = input("masukkan kelas : ")
6
7 tugas = float(input("Masukkan nilai tugas: "))#nilai tugas 25%
8 uts = int(input("Masukkan nilai uts: "))#nilai uts 35%
9 uas = int(input("Masukkan nilai uas: "))#nilai uas 40%
10 print("\nNilai grade mahasiswa")
11
12 NA = (0.25 * tugas) + (0.35 * uts) + (0.40 * uas)
13 print(f"NA")
14
15 if NA >= 75:
16     grade = "A"
17 elif 60 <= NA < 75:
18     grade = "B"
19 elif 45 <= NA < 60:
20     grade = "C"
21 elif NA < 45:
```

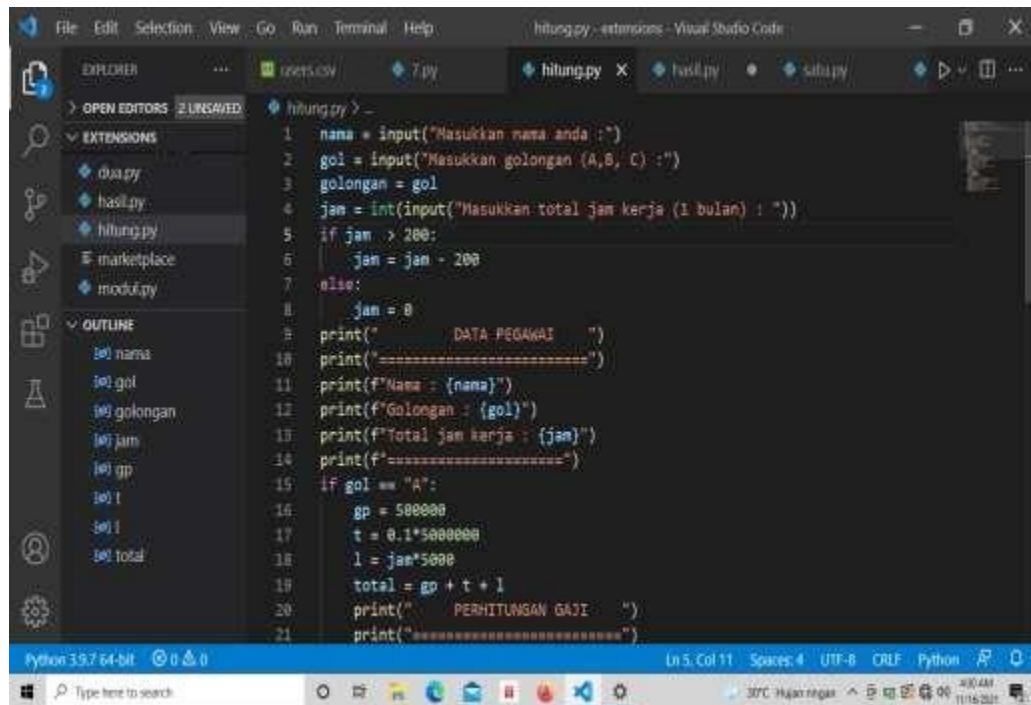
OUTPUT

```
masukkan kelas : c
Masukkan nilai tugas: 80
Masukkan nilai uts: 85
Masukkan nilai uas: 90

Nilai grade mahasiswa
85.75

Hasil perhitungan nilai akhir
PS C:\Users\ASUS\.vscode\extensions> "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/7.py
```

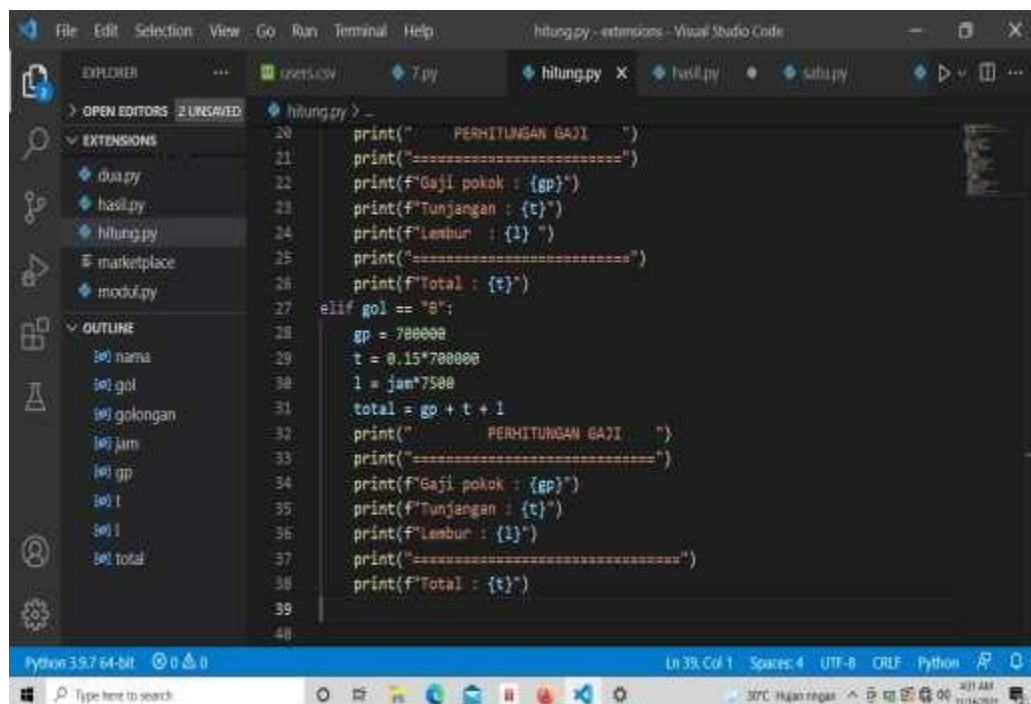
6. Program menentukan gaji pegawai.



The screenshot shows the Visual Studio Code editor with a Python file named `hitung.py`. The code is as follows:

```
1 nama = input("Masukkan nama anda :")
2 gol = input("Masukkan golongan (A,B, C) :")
3 golongan = gol
4 jam = int(input("Masukkan total jam kerja (1 bulan) : "))
5 if jam > 200:
6     jam = jam - 200
7 else:
8     jam = 0
9 print("      DATA PEGAWAI      ")
10 print("=====")
11 print(f"Nama : {nama}")
12 print(f"Golongan : {gol}")
13 print(f"Total jam kerja : {jam}")
14 print(f"=====")
15 if gol == "A":
16     gp = 500000
17     t = 0.1*500000
18     l = jam*5000
19     total = gp + t + l
20 print("      PERHITUNGAN GAJI      ")
21 print("=====")
```

The left sidebar shows the Explorer view with a file named `hitung.py` selected. The Outline view shows the following variables: `nama`, `gol`, `golongan`, `jam`, `gp`, `t`, `l`, and `total`.



The screenshot shows the Visual Studio Code editor with the same Python file `hitung.py`. The code continues from the previous screenshot:

```
20 print("      PERHITUNGAN GAJI      ")
21 print("=====")
22 print(f"Gaji pokok : {gp}")
23 print(f"Tunjangan : {t}")
24 print(f"Lembur : {l}")
25 print("=====")
26 print(f"Total : {total}")
27 elif gol == "B":
28     gp = 700000
29     t = 0.15*700000
30     l = jam*7500
31     total = gp + t + l
32 print("      PERHITUNGAN GAJI      ")
33 print("=====")
34 print(f"Gaji pokok : {gp}")
35 print(f"Tunjangan : {t}")
36 print(f"Lembur : {l}")
37 print("=====")
38 print(f"Total : {total}")
39
```

The left sidebar shows the Explorer view with the same file `hitung.py` selected. The Outline view shows the same variables: `nama`, `gol`, `golongan`, `jam`, `gp`, `t`, `l`, and `total`.

The screenshot shows the Visual Studio Code interface with the 'TERMINAL' panel active. The left sidebar shows the 'EXPLORER' view with a file named 'hitung.py' selected. The 'OUTLINE' view shows the structure of the script, including variables like 'nama', 'gol', 'jam', 'gp', 't', 'l', and 'total'. The terminal window displays the output of running the script, which prompts the user for input and displays the results.

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

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/hitung.py
Masukkan nama anda : ambar wati
Masukkan golongan (A,B, C) : b
Masukkan total jam kerja (1 bulan) : 210
DATA PEGAWAI
=====
Nama : ambar wati
Golongan : b
Total jam kerja : 10
=====
PS C:\Users\ASUS\.vscode\extensions>
PS C:\Users\ASUS\.vscode\extensions>
PS C:\Users\ASUS\.vscode\extensions>
```

Python 3.9.7 64-bit 0 0 0 Ln 39, Col 1 Spaces: 4 UTF-8 CRLF Python