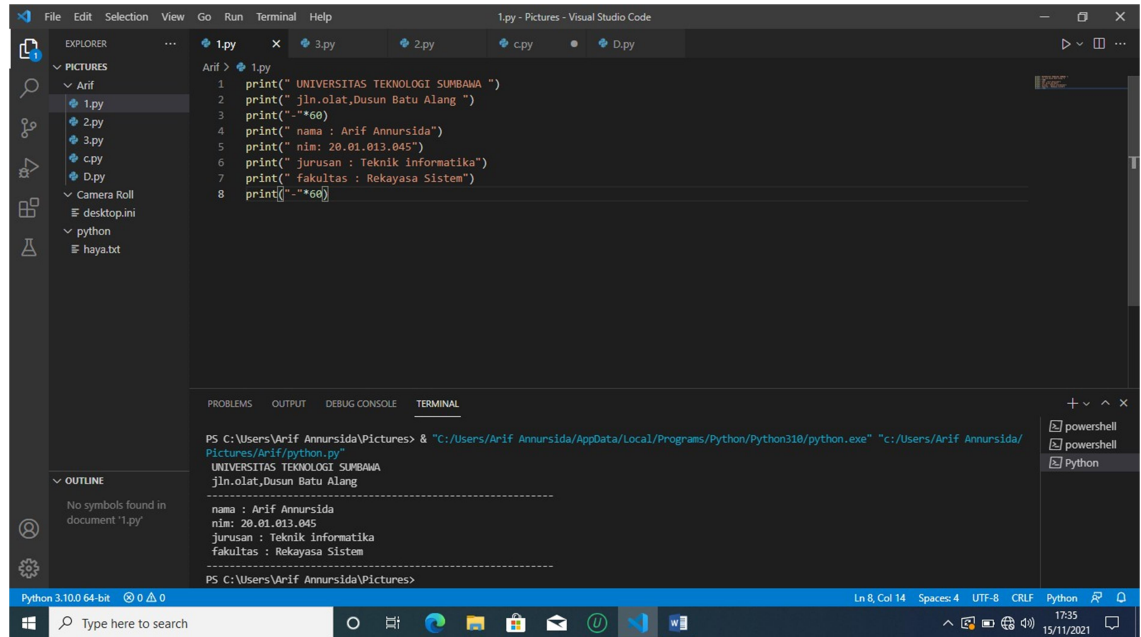


Tugas AI 1 - 15 November 2021

1. 4.9 PRAKTIKUM

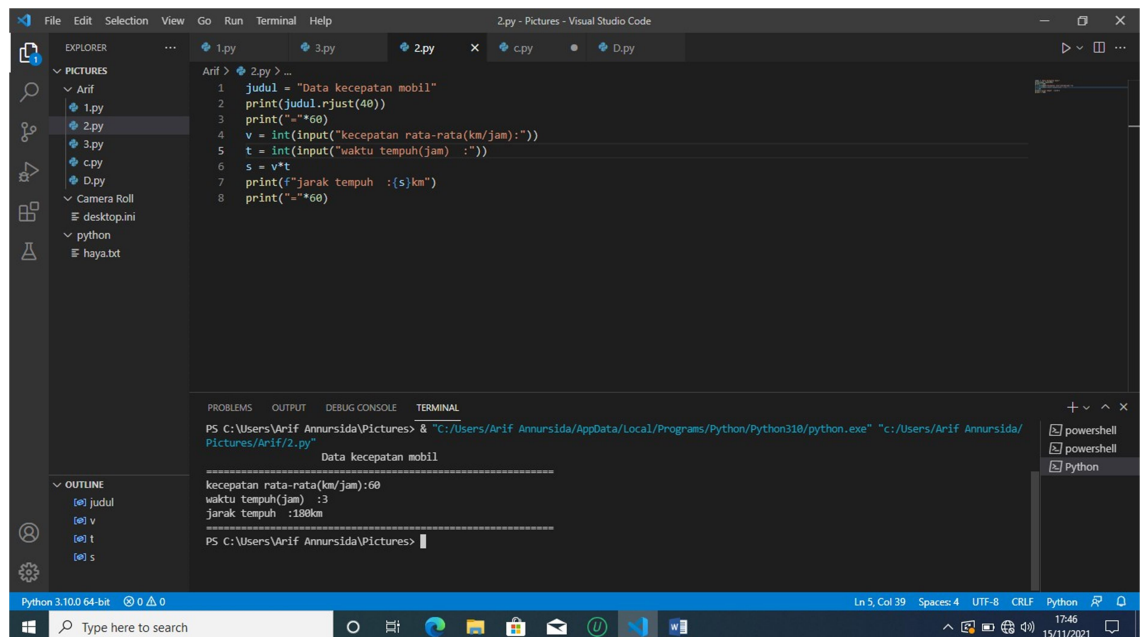


The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a folder named 'Arif' containing several Python files. The main editor window shows the content of '1.py', which is a script that prints personal information. The terminal at the bottom shows the command to run the script and its output.

```
1.py
1 print(" UNIVERSITAS TEKNOLOGI SUMBAWA ")
2 print(" jln.olat,Dusun Batu Alang ")
3 print("-"*60)
4 print(" nama : Arif Annursida")
5 print(" nim: 20.01.013.045")
6 print(" jurusan : Teknik Informatika")
7 print(" fakultas : Rekayasa Sistem")
8 print("-"*60)
```

```
PS C:\Users\Arif Annursida\Pictures> "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Arif/python.py"
UNIVERSITAS TEKNOLOGI SUMBAWA
jln.olat,Dusun Batu Alang
-----
nama : Arif Annursida
nim: 20.01.013.045
jurusan : Teknik Informatika
fakultas : Rekayasa Sistem
-----
PS C:\Users\Arif Annursida\Pictures>
```

2. 4.10 Mencari Jarak Tempuh

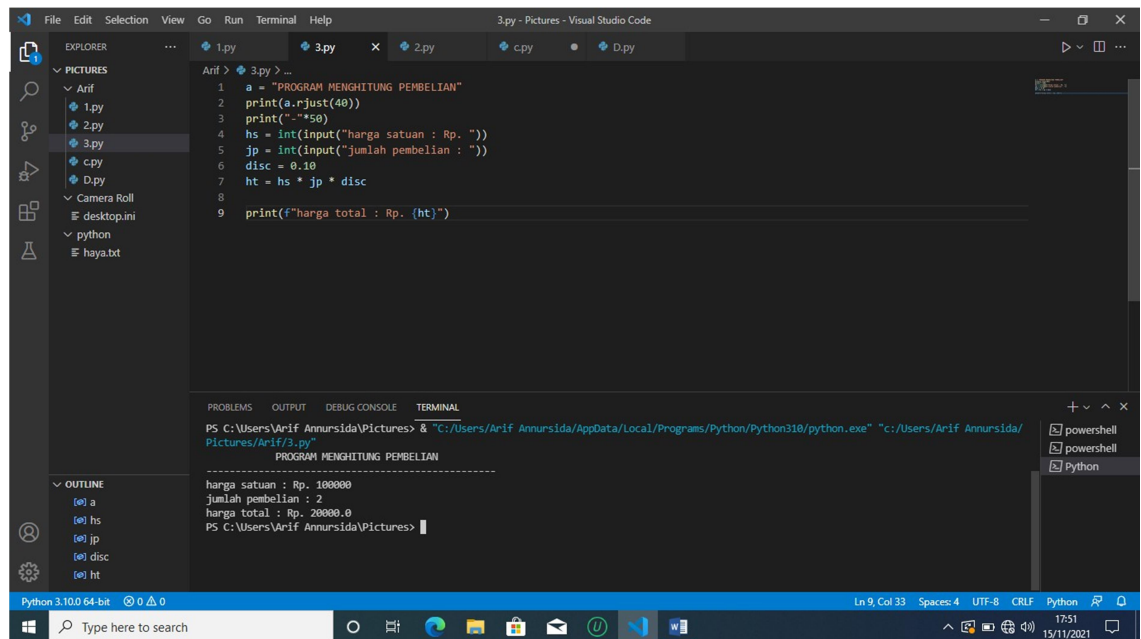


The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a folder named 'Arif' containing several Python files. The main editor window shows the content of '2.py', which is a script that calculates distance based on speed and time. The terminal at the bottom shows the command to run the script and its output.

```
2.py
1 judul = "Data kecepatan mobil"
2 print(judul.rjust(40))
3 print("-"*60)
4 v = int(input("kecepatan rata-rata(km/jam):"))
5 t = int(input("waktu tempuh(jam) :"))
6 s = v*t
7 print(f"jarak tempuh :{s}km")
8 print("-"*60)
```

```
PS C:\Users\Arif Annursida\Pictures> "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Arif/2.py"
Data kecepatan mobil
-----
kecepatan rata-rata(km/jam):60
waktu tempuh(jam) :3
jarak tempuh :180km
-----
PS C:\Users\Arif Annursida\Pictures>
```

3. Menghitung harga discount 10%



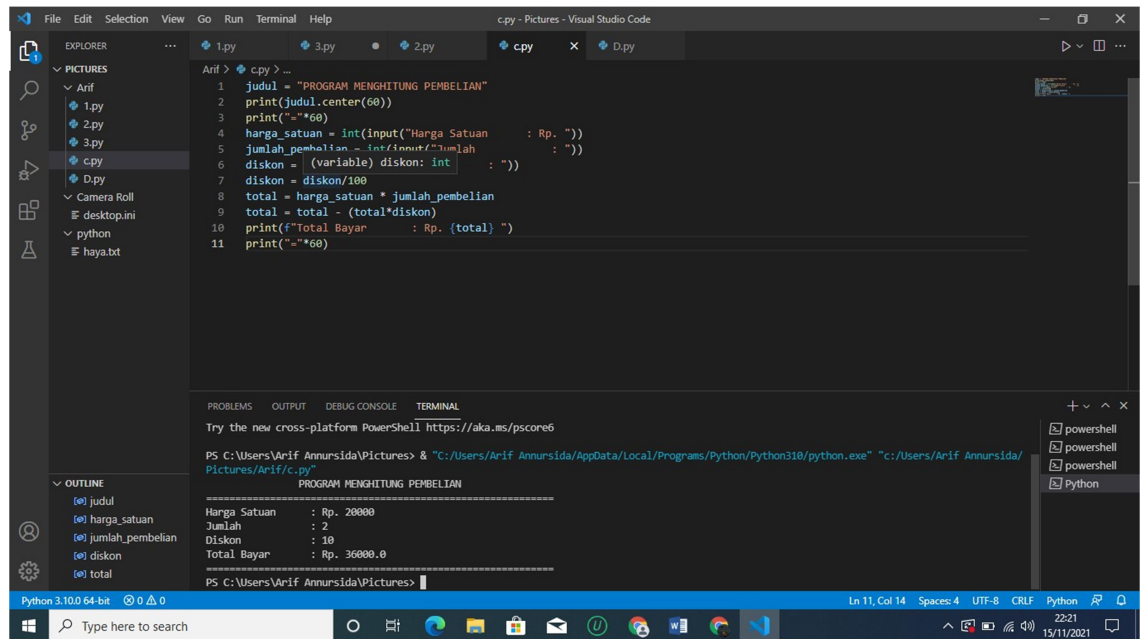
The screenshot shows the Visual Studio Code interface with a Python file named `3.py` open. The Explorer sidebar on the left shows a project structure with folders `Arif` and `python`, and files `1.py`, `2.py`, `3.py`, `c.py`, `D.py`, `desktop.ini`, and `haya.txt`. The `Arif` folder is expanded, showing `1.py`, `2.py`, `3.py`, `c.py`, and `D.py`. The `3.py` file is selected and its content is displayed in the editor. The code is a Python script that calculates a 10% discount on a purchase. The script prompts the user for the unit price and the quantity, then calculates the total price with a 10% discount. The output is displayed in the terminal.

```
1 a = "PROGRAM MENGHITUNG PEMBELIAN"
2 print(a.rjust(40))
3 print("-"*50)
4 hs = int(input("harga satuan : Rp. "))
5 jp = int(input("jumlah pembelian : "))
6 disc = 0.10
7 ht = hs * jp * disc
8
9 print(f"harga total : Rp. {ht}")
```

The terminal output shows the execution of the script:

```
PS C:\Users\Arif Annursida\Pictures> & "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Arif/3.py"
PROGRAM MENGHITUNG PEMBELIAN
-----
harga satuan : Rp. 100000
jumlah pembelian : 2
harga total : Rp. 20000.0
PS C:\Users\Arif Annursida\Pictures>
```

4. Program menghitung pembelian



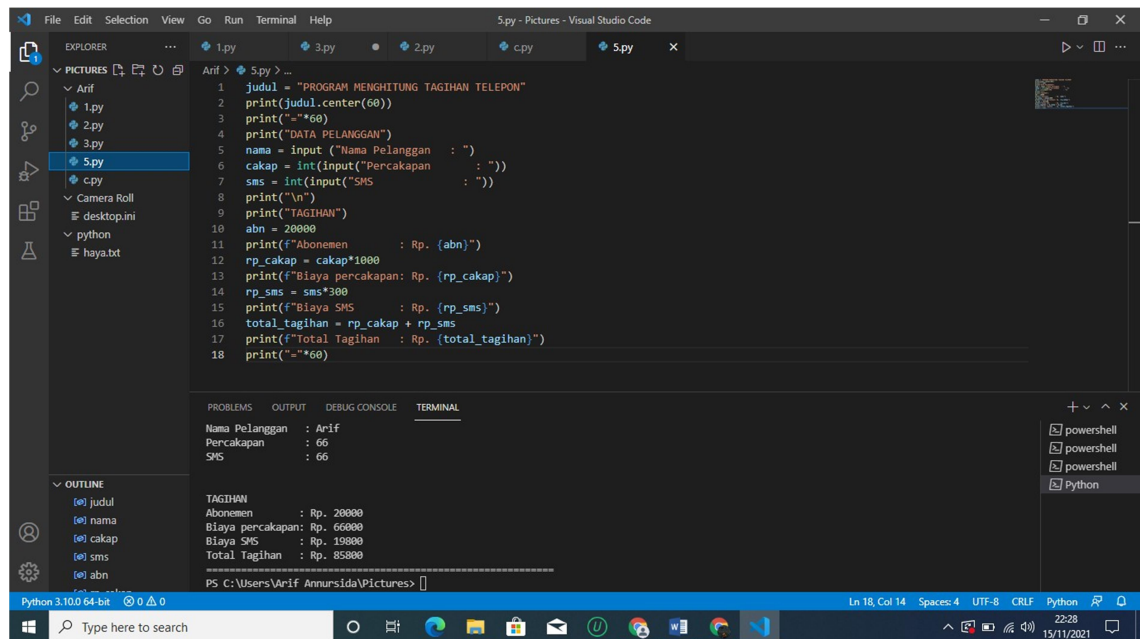
The screenshot shows the Visual Studio Code interface with a Python file named `c.py` open. The Explorer sidebar on the left shows a project structure with folders `Arif` and `python`, and files `1.py`, `2.py`, `3.py`, `c.py`, `D.py`, `desktop.ini`, and `haya.txt`. The `Arif` folder is expanded, showing `1.py`, `2.py`, `3.py`, `c.py`, and `D.py`. The `c.py` file is selected and its content is displayed in the editor. The code is a Python script that calculates the total purchase price with a discount. The script prompts the user for the unit price, the quantity, and the discount rate, then calculates the total price with the discount. The output is displayed in the terminal.

```
1 judul = "PROGRAM MENGHITUNG PEMBELIAN"
2 print(judul.center(60))
3 print("-"*60)
4 harga_satuan = int(input("Harga Satuan : Rp. "))
5 jumlah_pembelian = int(input("Jumlah : "))
6 diskon = (variable) diskon: int : ")
7 diskon = diskon/100
8 total = harga_satuan * jumlah_pembelian
9 total = total - (total*diskon)
10 print(f"Total Bayar : Rp. {total} ")
11 print("-"*60)
```

The terminal output shows the execution of the script:

```
PS C:\Users\Arif Annursida\Pictures> & "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Arif/c.py"
PROGRAM MENGHITUNG PEMBELIAN
-----
Harga Satuan : Rp. 20000
Jumlah : 2
Diskon : 10
Total Bayar : Rp. 36000.0
PS C:\Users\Arif Annursida\Pictures>
```

5. Program menghitung tagihan telpon



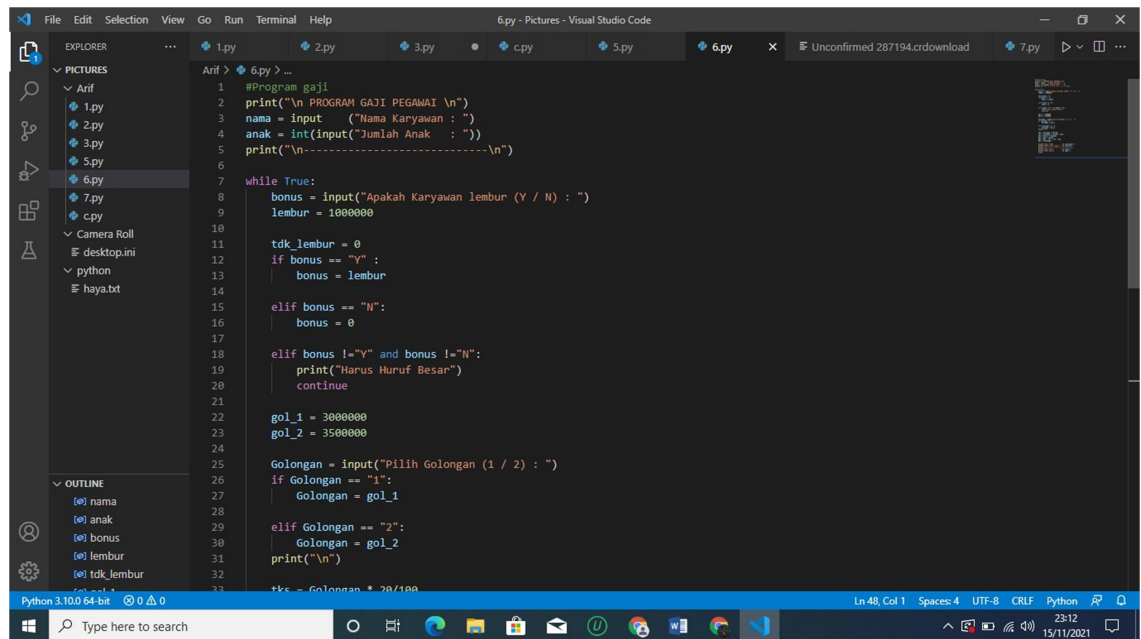
```
1 judul = "PROGRAM MENGHITUNG TAGIHAN TELEPON"
2 print(judul.center(60))
3 print("-"*60)
4 print("DATA PELANGGAN")
5 nama = input("Nama Pelanggan : ")
6 cakap = int(input("Percakapan : "))
7 sms = int(input("SMS : "))
8 print("\n")
9 print("TAGIHAN")
10 abn = 20000
11 print(f"Abonemen : Rp. {abn}")
12 rp_cakap = cakap*1000
13 print(f"Biaya percakapan: Rp. {rp_cakap}")
14 rp_sms = sms*300
15 print(f"Biaya SMS : Rp. {rp_sms}")
16 total_tagihan = rp_cakap + rp_sms
17 print(f"Total Tagihan : Rp. {total_tagihan}")
18 print("-"*60)
```

OUTPUT:

```
Nama Pelanggan : Arif
Percakapan : 66
SMS : 66

TAGIHAN
Abonemen : Rp. 20000
Biaya percakapan: Rp. 66000
Biaya SMS : Rp. 19800
Total Tagihan : Rp. 85800
```

6. Program gaji



```
1 #Program gaji
2 print("\n PROGRAM GAJI PEGAWAI \n")
3 nama = input("Nama Karyawan : ")
4 anak = int(input("Jumlah Anak : "))
5 print("\n-----\n")
6
7 while True:
8     bonus = input("Apakah Karyawan lembur (Y / N) : ")
9     lembur = 1000000
10
11     tdk_lembur = 0
12     if bonus == "Y" :
13         bonus = lembur
14
15     elif bonus == "N":
16         bonus = 0
17
18     elif bonus != "Y" and bonus != "N":
19         print("Harus Huruf Besar")
20         continue
21
22     gol_1 = 3000000
23     gol_2 = 3500000
24
25     Golongan = input("Pilih Golongan (1 / 2) : ")
26     if Golongan == "1":
27         Golongan = gol_1
28
29     elif Golongan == "2":
30         Golongan = gol_2
31     print("\n")
32     tks = Golongan * 20/100
```

The screenshot shows the Visual Studio Code editor with a Python file named 6.py. The code is a script for calculating an employee's salary and bonus based on their position and overtime hours. The Explorer sidebar on the left shows a project structure with folders 'Arif' and 'Camera Roll', and files '1.py', '2.py', '3.py', '5.py', '6.py', '7.py', 'c.py', 'desktop.ini', 'python', and 'haya.txt'. The Outline sidebar shows variables 'nama', 'anak', 'bonus', 'lembur', and 'tdk_lembur'. The code in 6.py is as follows:

```
27 Golongan = gol_1
28
29 elif Golongan == "2":
30     Golongan = gol_2
31     print("\n")
32
33 tks = Golongan * 20/100
34 tkl = Golongan * 10/100 * anak
35 gkt = bonus + Golongan
36 pjk = gkt * 10/100
37 gbs = gkt - tks - tkl - pjk
38 gbs = round(gbs)
39
40 print(f"Gaji Pokok      : Rp.{Golongan}")
41 print(f"Bonus Gaji Lembur : Rp.{bonus}")
42 print("\n-----\n")
43 print(f"Gaji Kotor      : Rp.{gkt}")
44 print(f"Gaji Bersih      : Rp.{gbs}")
45 break
46
47
48
```

The status bar at the bottom indicates Python 3.10.0 64-bit, Ln 48, Col 1, Spaces: 4, UTF-8, CRLF, Python.

The screenshot shows the same Visual Studio Code editor with the Python file 6.py. The code is the same as in the previous screenshot. The terminal window at the bottom is open, showing the output of the program. The output is as follows:

```
PROGRAM GAJI PEGAWAI
Nama Karyawan : Arif Annursida
Jumlah Anak   : 2

-----
Apakah Karyawan lembur (Y / N) : y
Harus Huruf Besar
Apakah Karyawan lembur (Y / N) : Y
Pilih golongan (1 / 2) : 2
```

The terminal window also shows a list of open applications: powershell, powershell, powershell, and Python. The status bar at the bottom indicates Python 3.10.0 64-bit, Ln 48, Col 1, Spaces: 4, UTF-8, CRLF, Python.

The screenshot shows a Visual Studio Code window with a Python file named `6.py`. The code is a program for calculating employee salary and bonus. It prompts the user for their name, number of children, and whether they are an overtime worker. It then calculates the bonus and total salary.

```
1 #Program gaji
2 print("\n PROGRAM GAJI PEGAWAI \n")
3 nama = input ("Nama Karyawan : ")
4 anak = int(input("Jumlah Anak : "))
5 print("\n-----\n")
6
7 while True:
8     bonus = input("Apakah Karyawan lembur (Y / N) : ")
9     lembur = 1000000
10
11     tdk_lembur = 0
12     if bonus == "Y" :
13         bonus = lembur
14
15     elif bonus == "N":
16         bonus = 0
17
18     elif bonus != "Y" and bonus != "N":
19         print("Harus Huruf Besar")
20         continue
```

The terminal output shows the results of the program execution:

```
Gaji Pokok      : Rp.3500000
Bonus Gaji Lembur : Rp.1000000
-----
Gaji Kotor      : Rp.4500000
Pictures/Arif/6.py
PROGRAM GAJI PEGAWAI
```

7. Program rupiah dalm pecahan

The screenshot shows a Visual Studio Code window with a Python file named `7.py`. The code is a program for converting a value into Indonesian Rupiah denominations. It prompts the user for a value and then calculates the number of 1000, 200, 50, and 10 Rupiah notes.

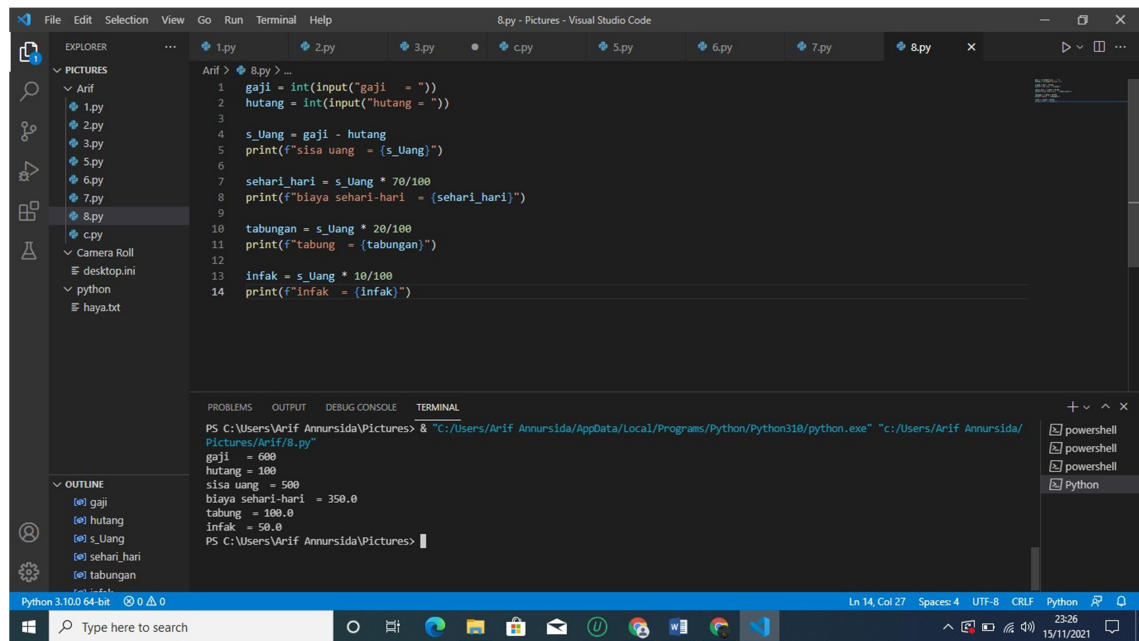
```
1 nUang = int(input("Masukkan nilai uang : "))
2 p1000 = nUang // 1000
3 sisa_nUang = nUang % 1000
4 p200 = sisa_nUang // 200
5 sisa_nUang = sisa_nUang % 200
6 p50 = sisa_nUang // 50
7 sisa_nUang = sisa_nUang % 50;
8
9 print()
10 print("Nilai uang = ", nUang)
11 print(p1000, "(seribuan) + ", p200, "(duaratusan)", p50, "(limapuluhan)")
```

The terminal output shows the results of the program execution:

```
PS C:\Users\Arif Annursida\Pictures> & "C:\Users\Arif Annursida\AppData\Local\Programs\Python\Python318\python.exe" "c:\Users\Arif Annursida/Pictures/Arif/7.py"
Masukkan nilai uang : 2550

Nilai uang = 2550
2 (seribuan) + 2 (duaratusan) 3 (limapuluhan)
PS C:\Users\Arif Annursida\Pictures>
```

8. Program pegawai membagi keungan



The screenshot shows the Visual Studio Code interface with a Python file named `8.py` open. The code calculates the remaining salary after deducting expenses and then calculates daily expenses, savings, and infak based on the remaining salary.

```
1 gaji = int(input("gaji = "))
2 hutang = int(input("hutang = "))
3
4 s_Uang = gaji - hutang
5 print(f"sisa uang = {s_Uang}")
6
7 sehari_hari = s_Uang * 70/100
8 print(f"biaya sehari-hari = {sehari_hari}")
9
10 tabungan = s_Uang * 20/100
11 print(f"tabung = {tabungan}")
12
13 infak = s_Uang * 10/100
14 print(f"infak = {infak}")
```

The terminal output shows the results of the program execution:

```
PS C:\Users\Arif Annursida\Pictures> "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "C:/Users/Arif Annursida/Pictures/Arif/8.py"
gaji = 600
hutang = 100
sisa uang = 500
biaya sehari-hari = 350.0
tabung = 100.0
infak = 50.0
PS C:\Users\Arif Annursida\Pictures>
```

The Explorer sidebar shows the file structure with the following files:

- Arif
 - 1.py
 - 2.py
 - 3.py
 - 5.py
 - 6.py
 - 7.py
 - 8.py
 - c.py
- Camera Roll
- desktop.ini
- python
 - haya.txt

The Outline sidebar shows the following variables:

- gaji
- hutang
- s_Uang
- sehari_hari
- tabungan

The status bar at the bottom indicates the file is using Python 3.10.0 64-bit, with 14 lines and 27 columns, using UTF-8 encoding and CRLF line endings.