Nama : Ambar Wati

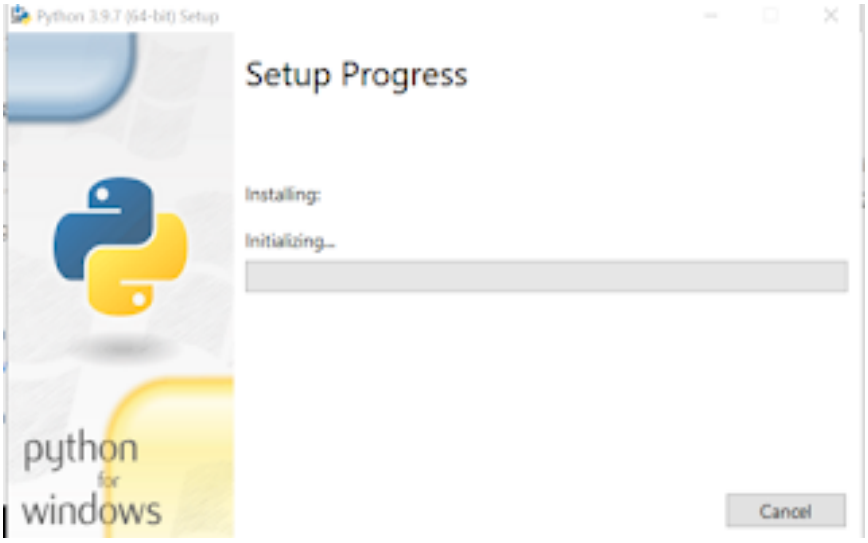
NIM : 20.01.013.001

Mata Kuliah : Pemrograman Python

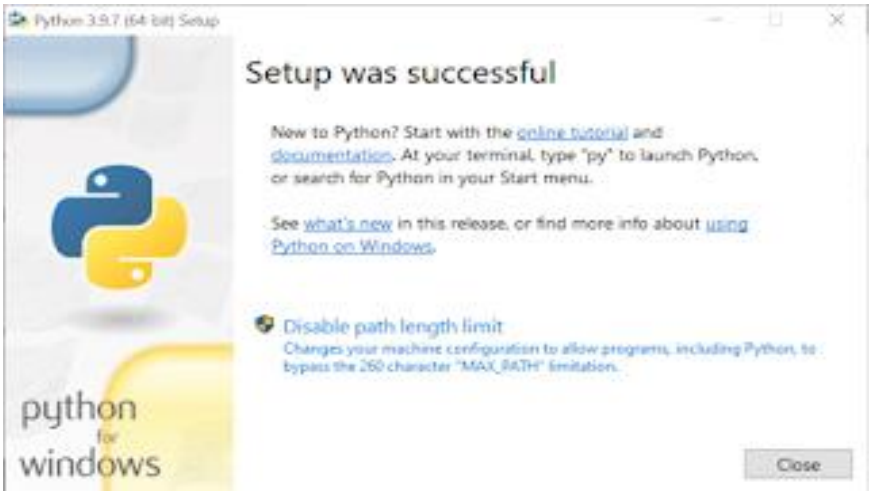
Instalasi Python

1. Pilih system python yang sesuai dengan system anda disini saya memakai python(3.9.7/64-bit)

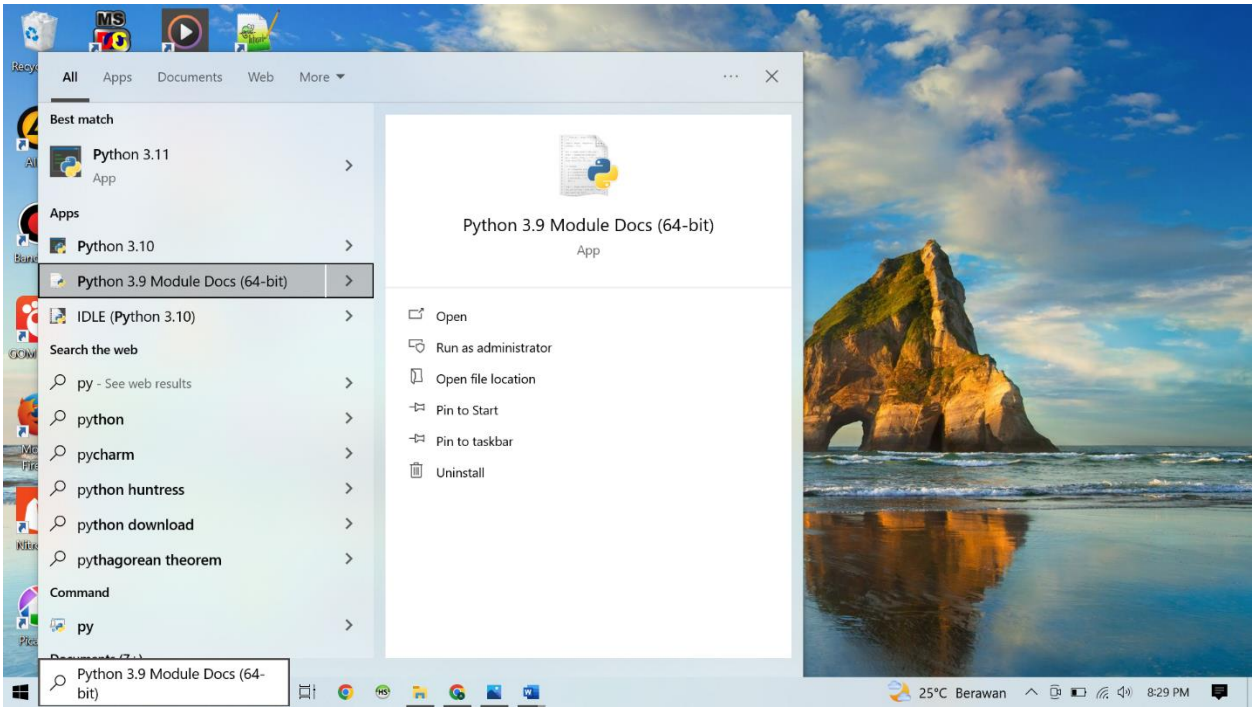
2. Tunggu hingga proses instalasi selesai



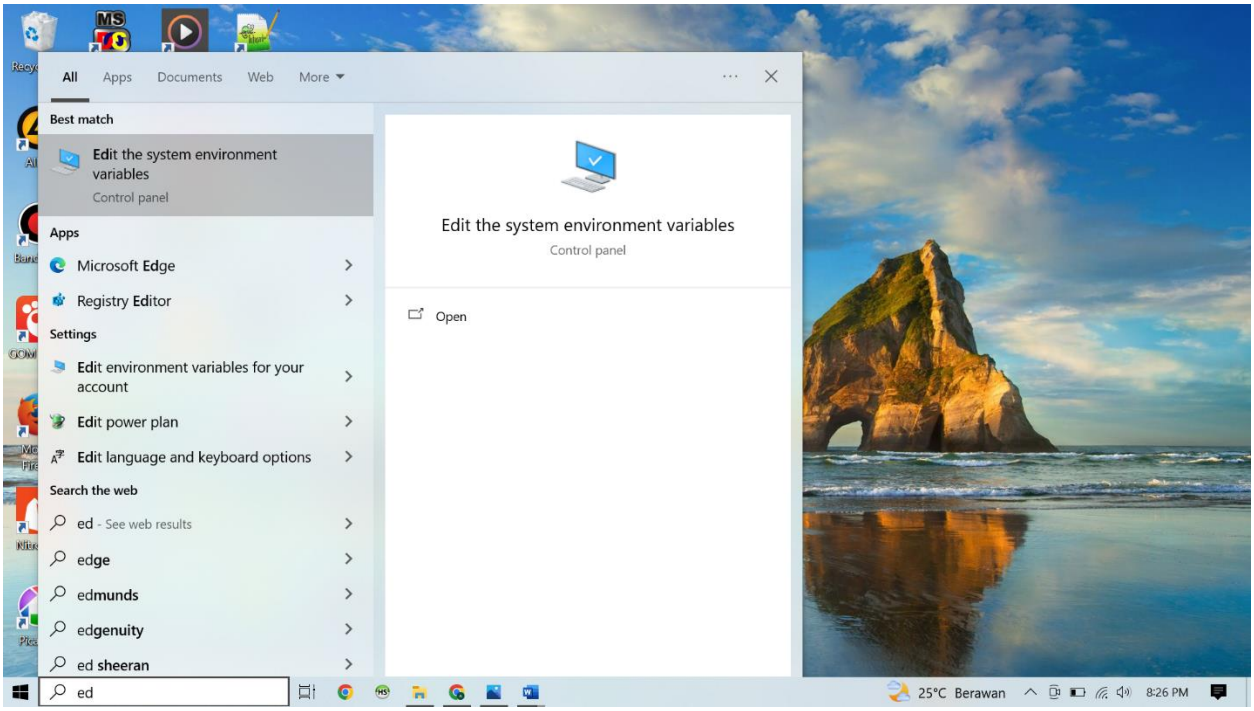
3. Setelah sukse klik Close.



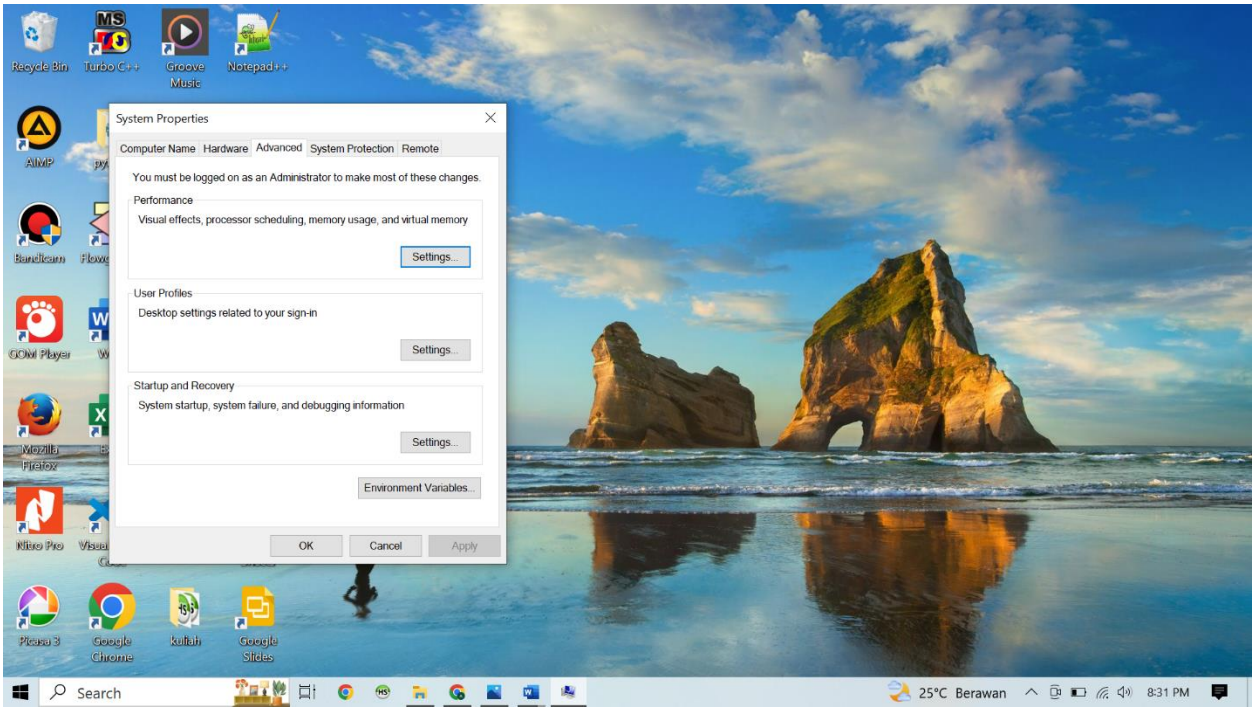
4. Kita bisa mengecek apakah python sudah terinstal atau belom.



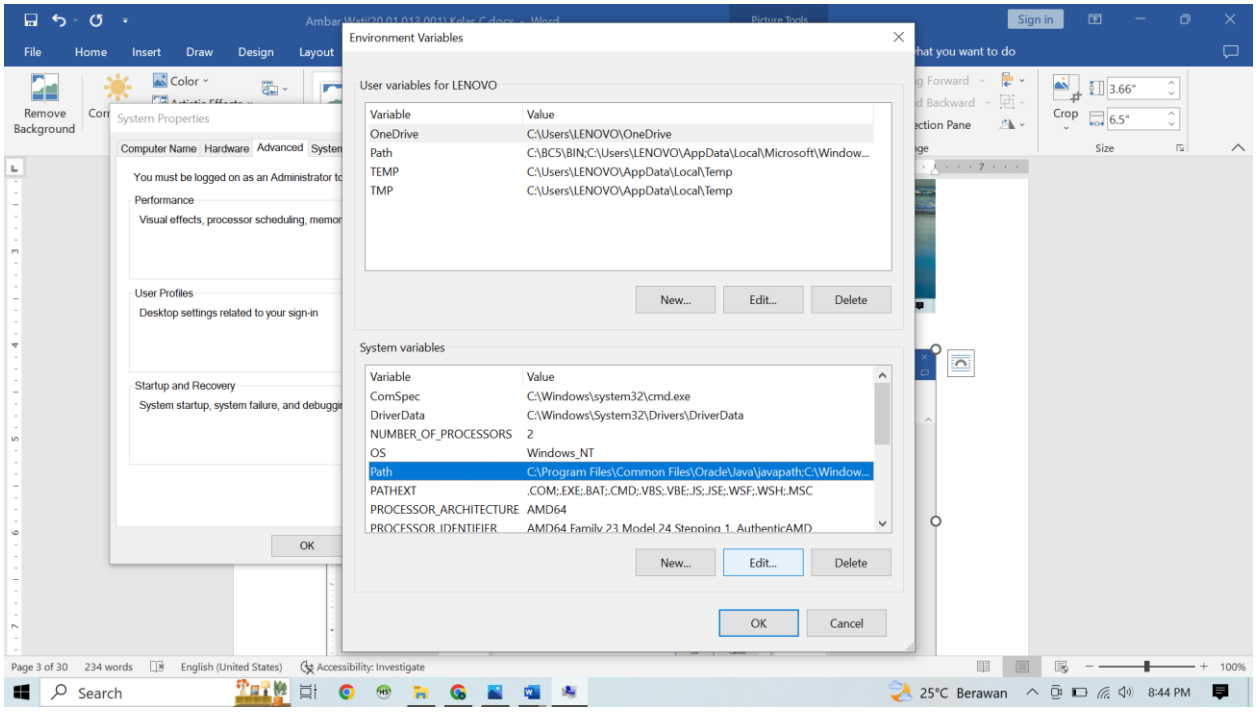
5. Selanjutnya buka sistem **enviroment variabel** untuk mensetting **path.**bisa di cek di menu searching.



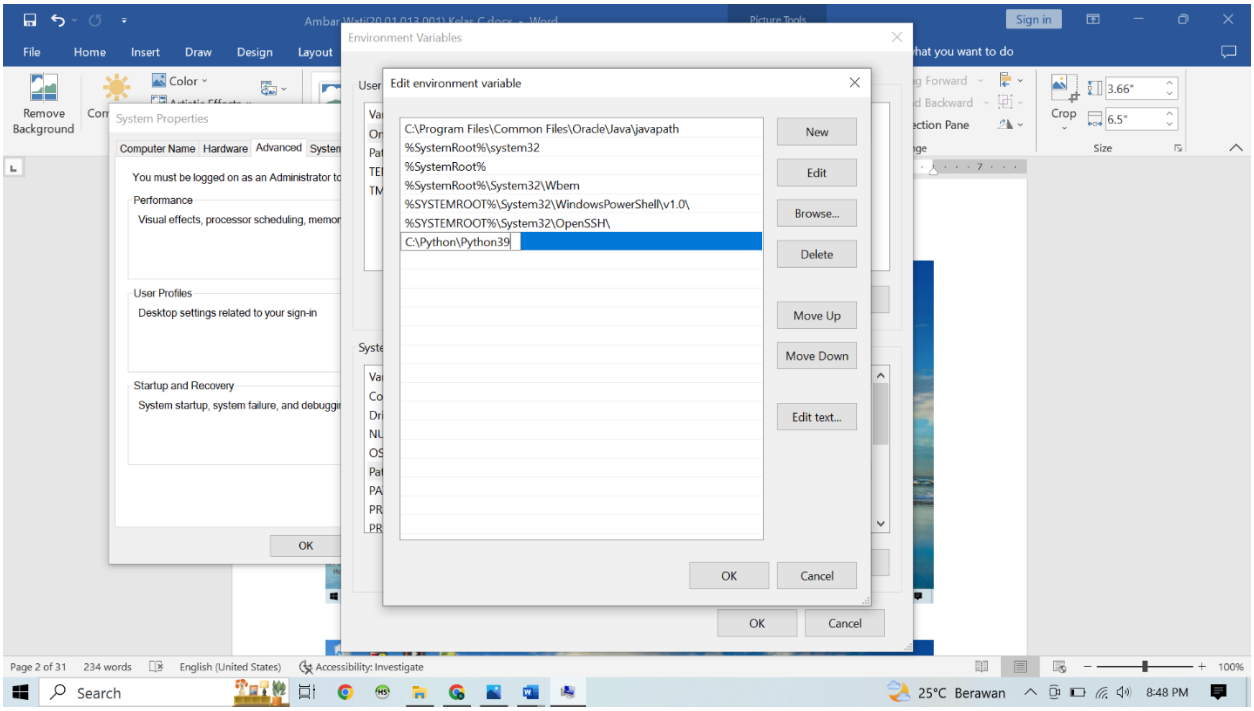
6. Setelah muncul kotak dialog klik **enviroment variabels** seperti gambar di bawah ini.



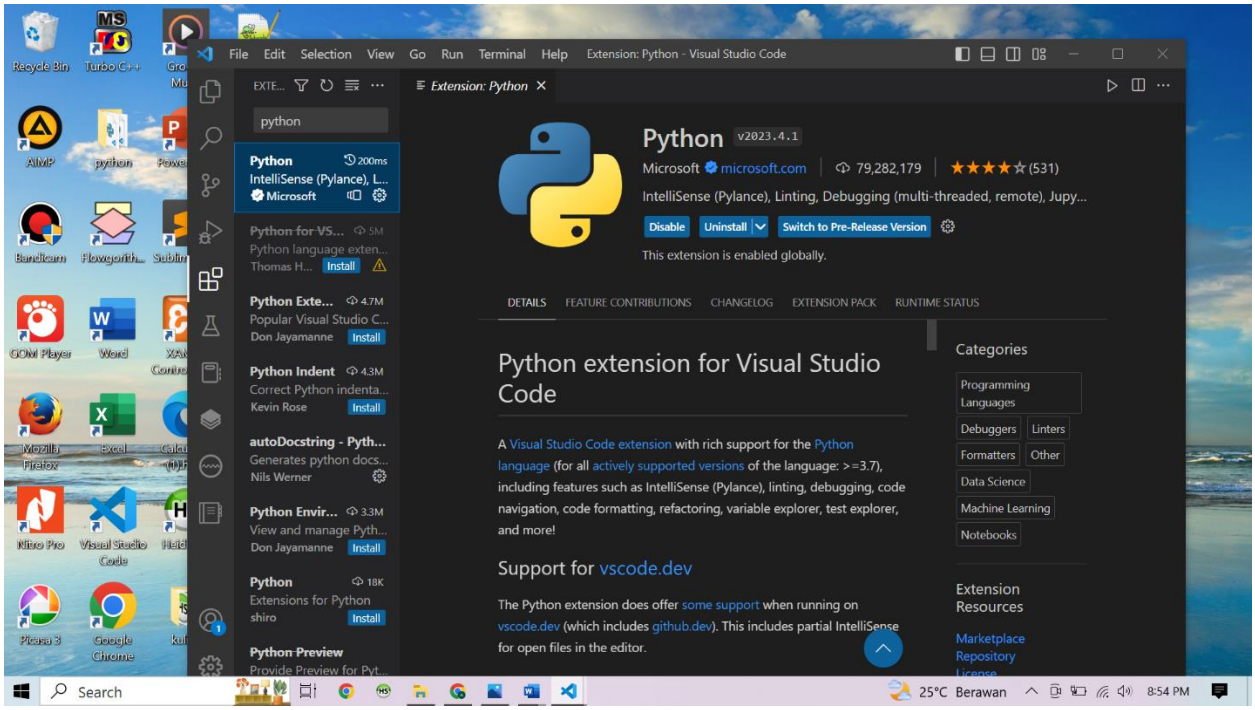
7. Pada bagian **system variables path** klik edit.



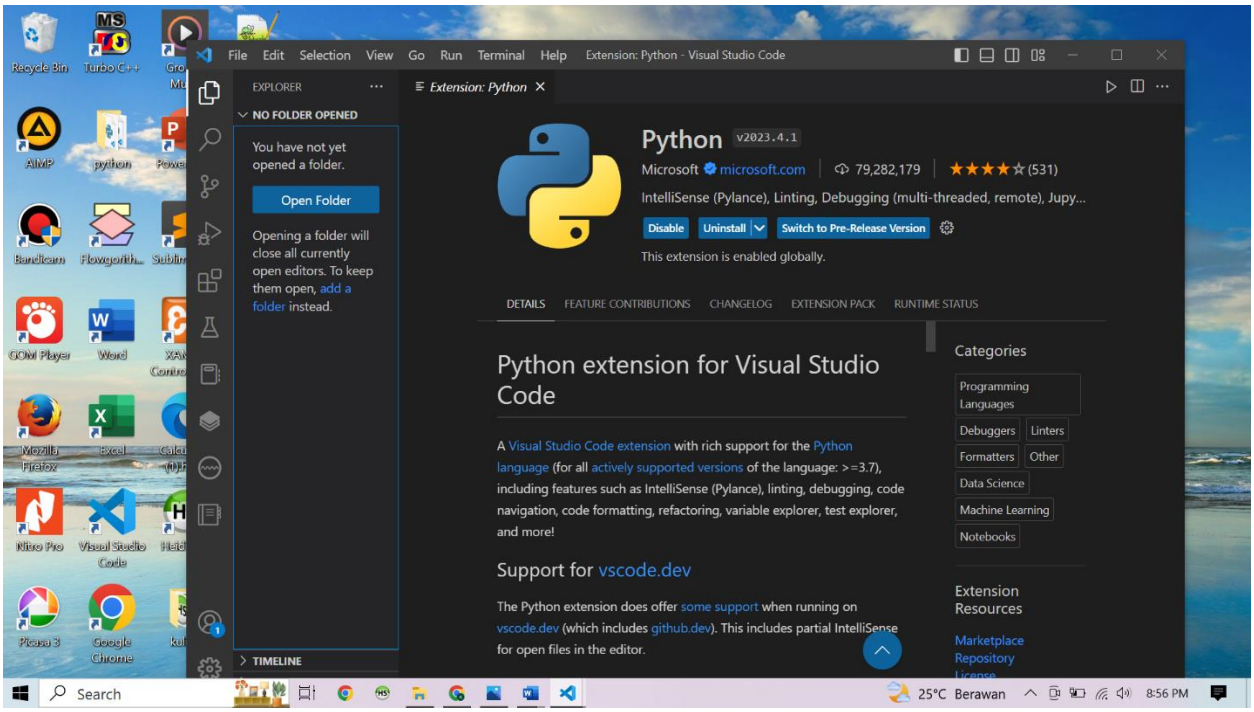
8. Klik tombol new lalu paste alamat directori yang telah di buat atau di copy



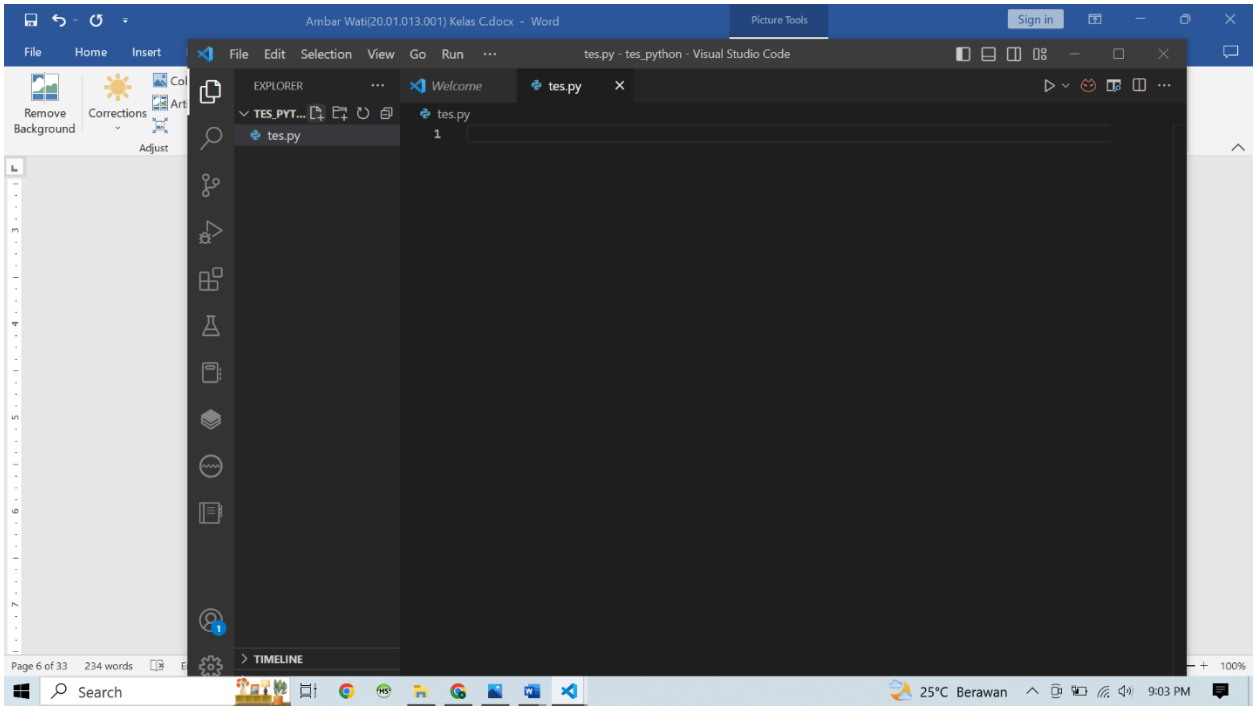
9. Lalu buka vs code pilih menu **extension** lalu searching python kemudian di install.



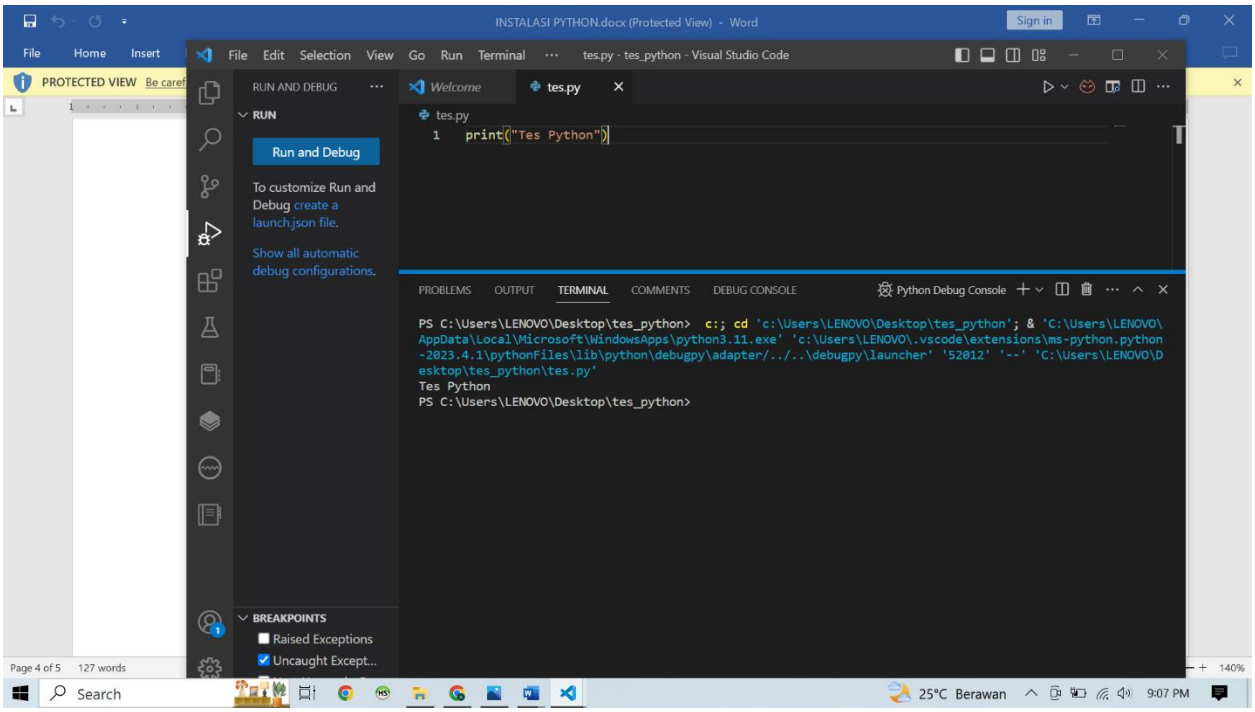
10. Lalu buat folder pada dekstop yang anda mau



11. Pada new file lalu buat **folder tes.pyhton**



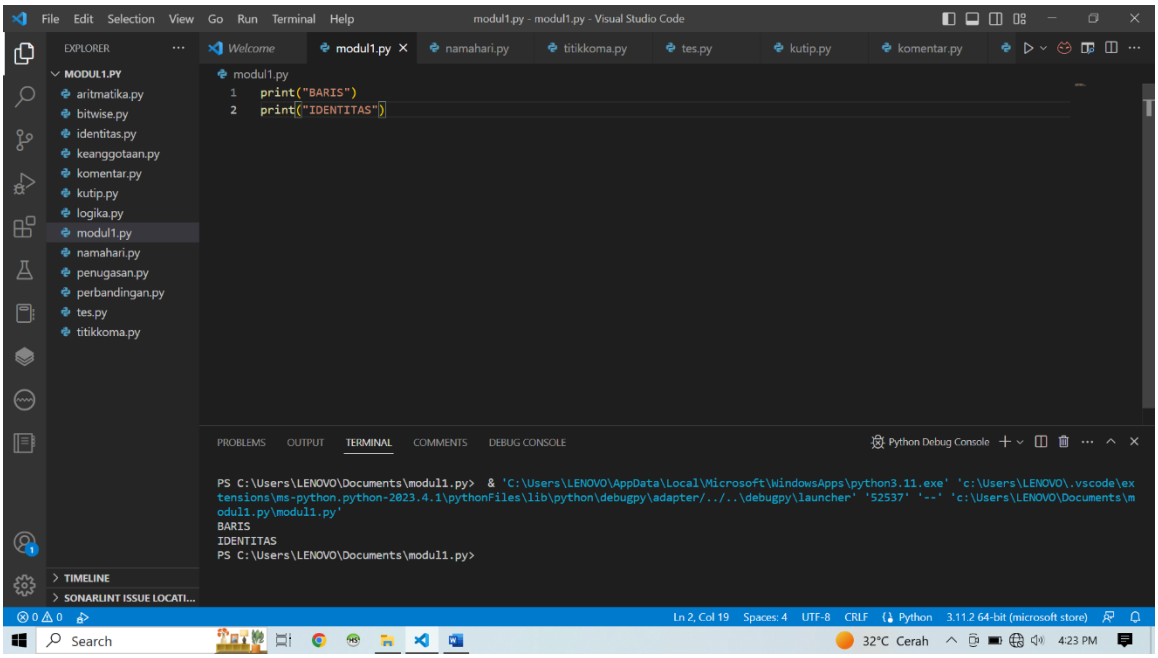
12. lalu run and Debug project seperti pada gambar di bawah ini



Python – Modul 1

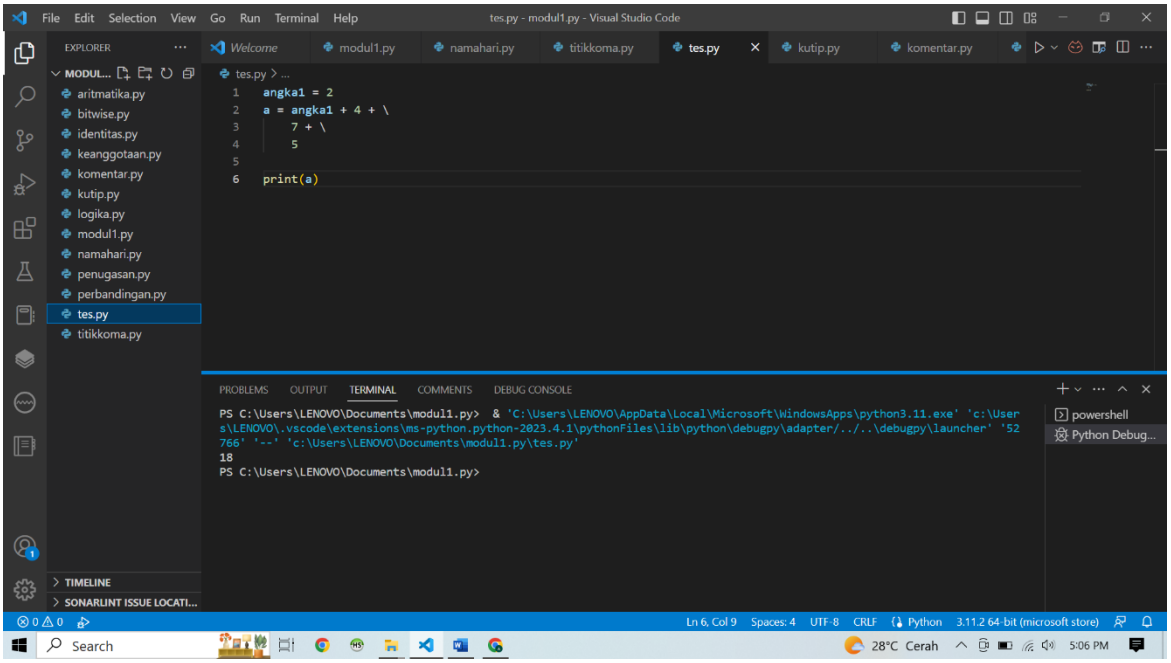
1. Baris dan identitas

   Blok kode pada python mengunakan tanda identitas (spasi).



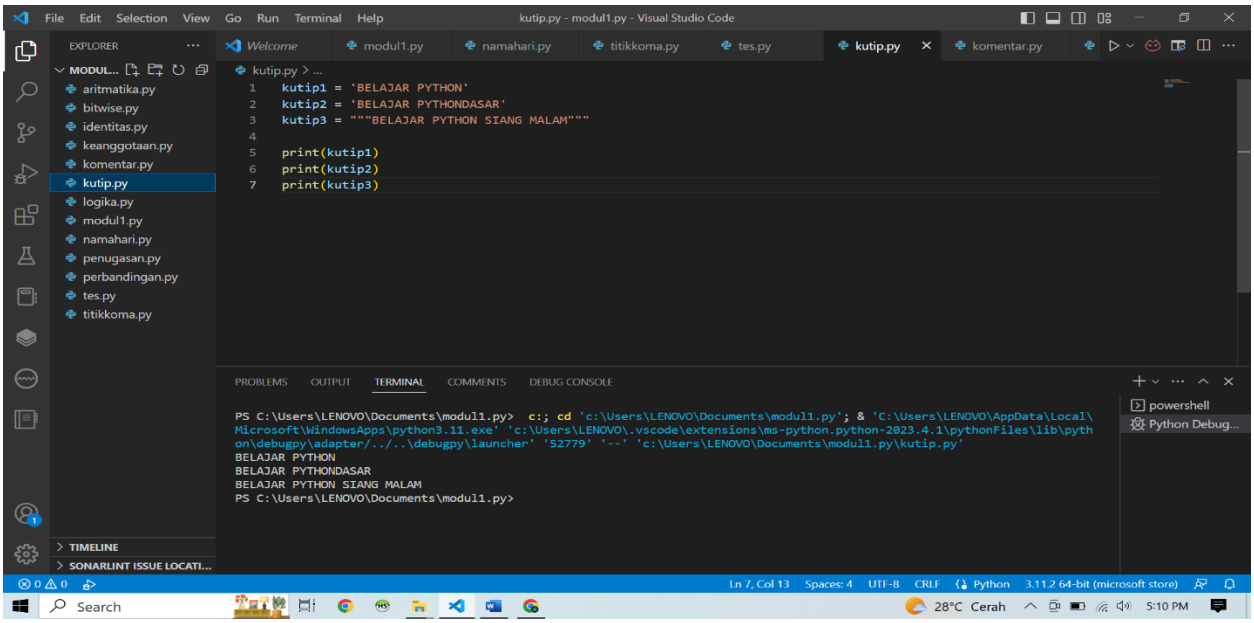
2. Pernyataan Multibaris

   Pada Python sebuat statement pada akhir dari baris baris menggunakan tanda (/)

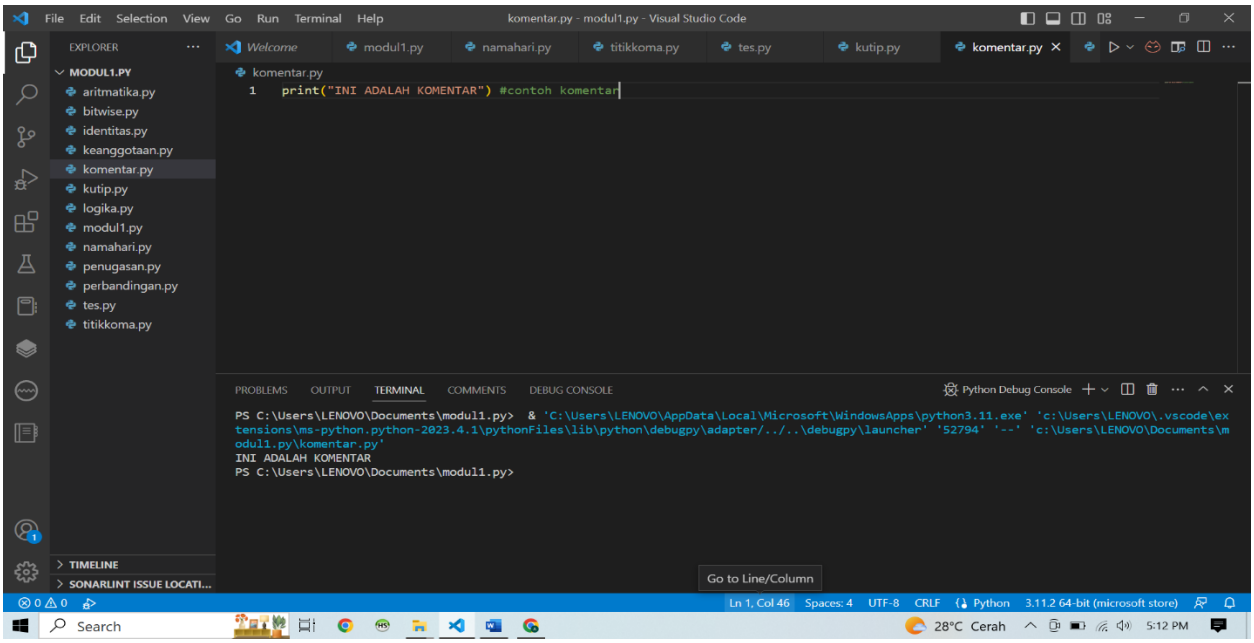


3. Tanda Kutip

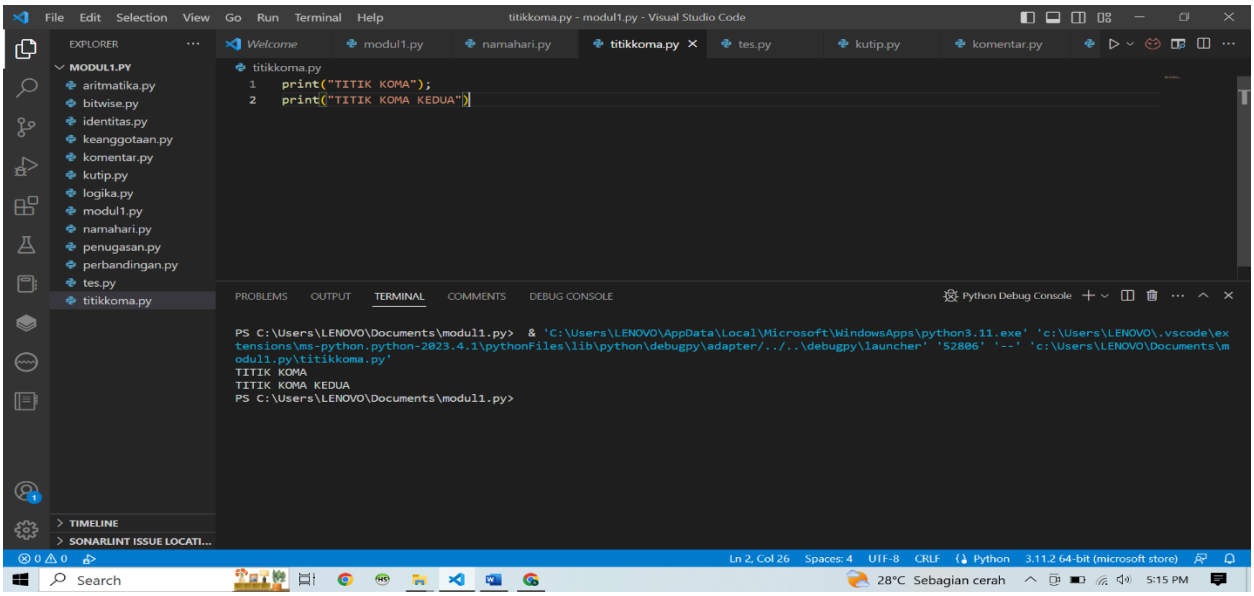
Pada python mengunakan tanda kutip tunggal (‘), ganda(“), triple(”’)



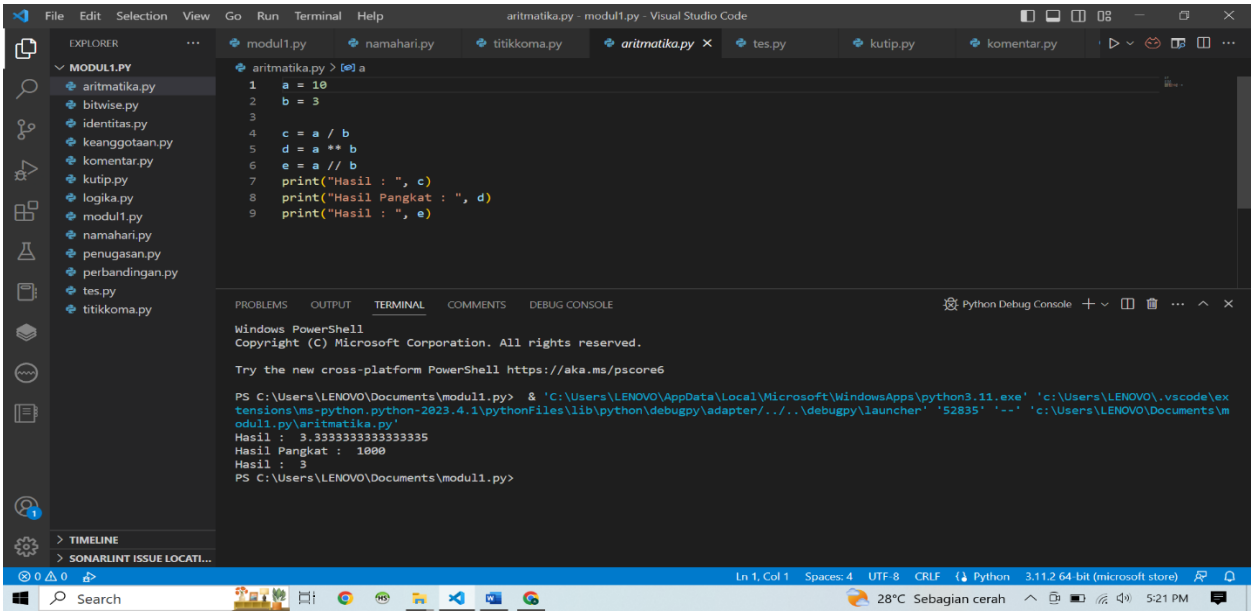
4. Komentar



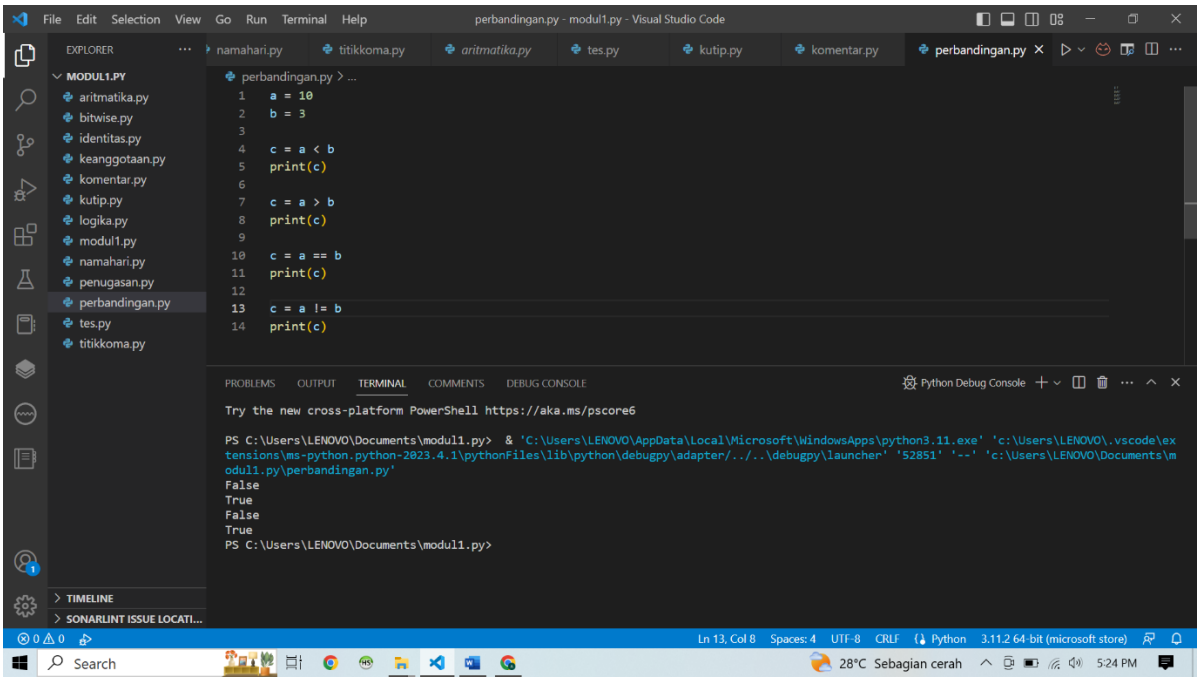
5. Dua pernyataan dalam satu baris



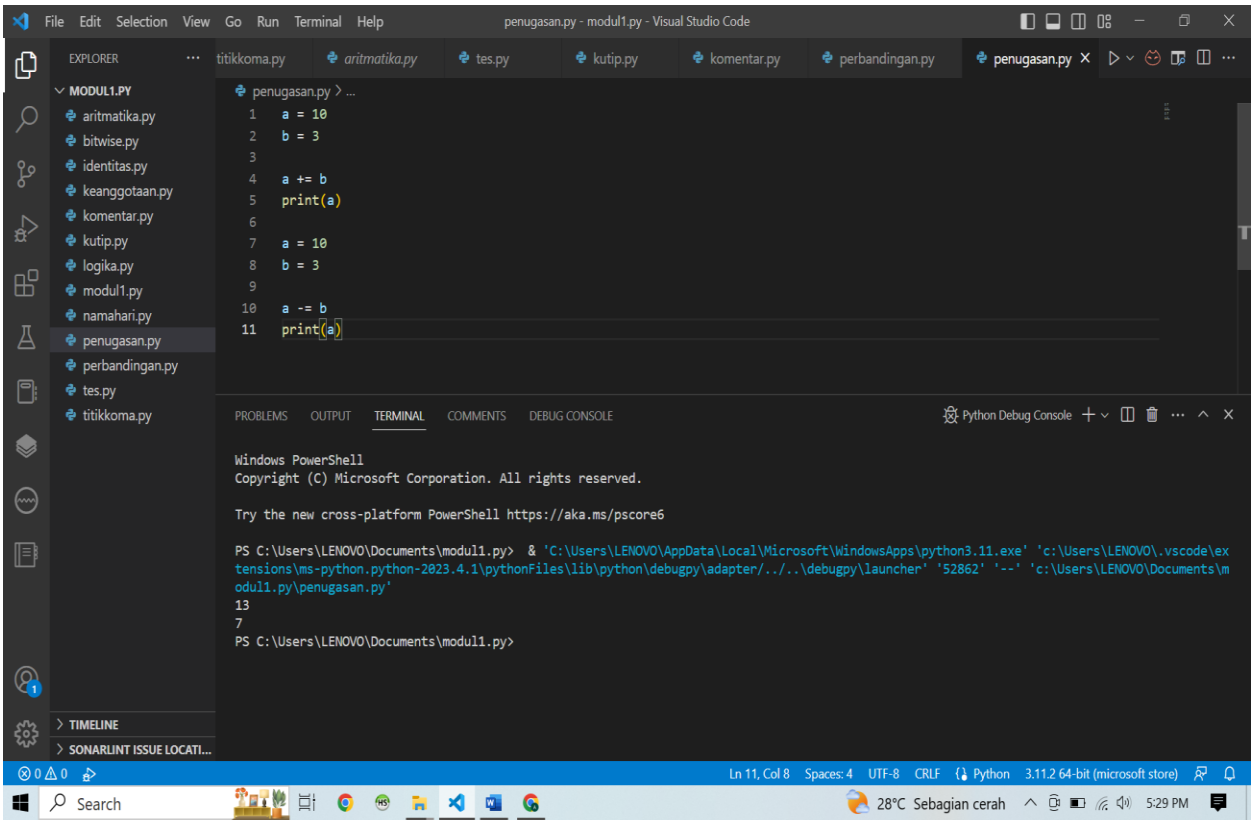
6. Operator Aritmatika



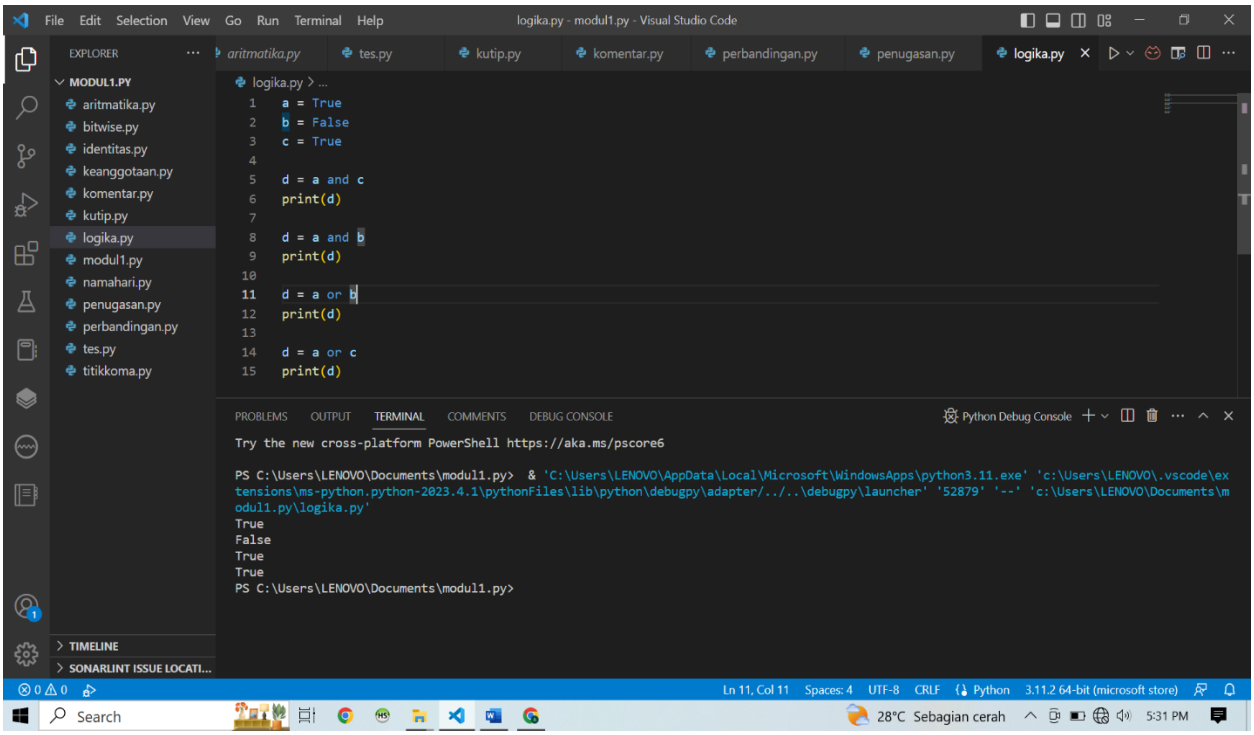
7. Operator Perbandingan



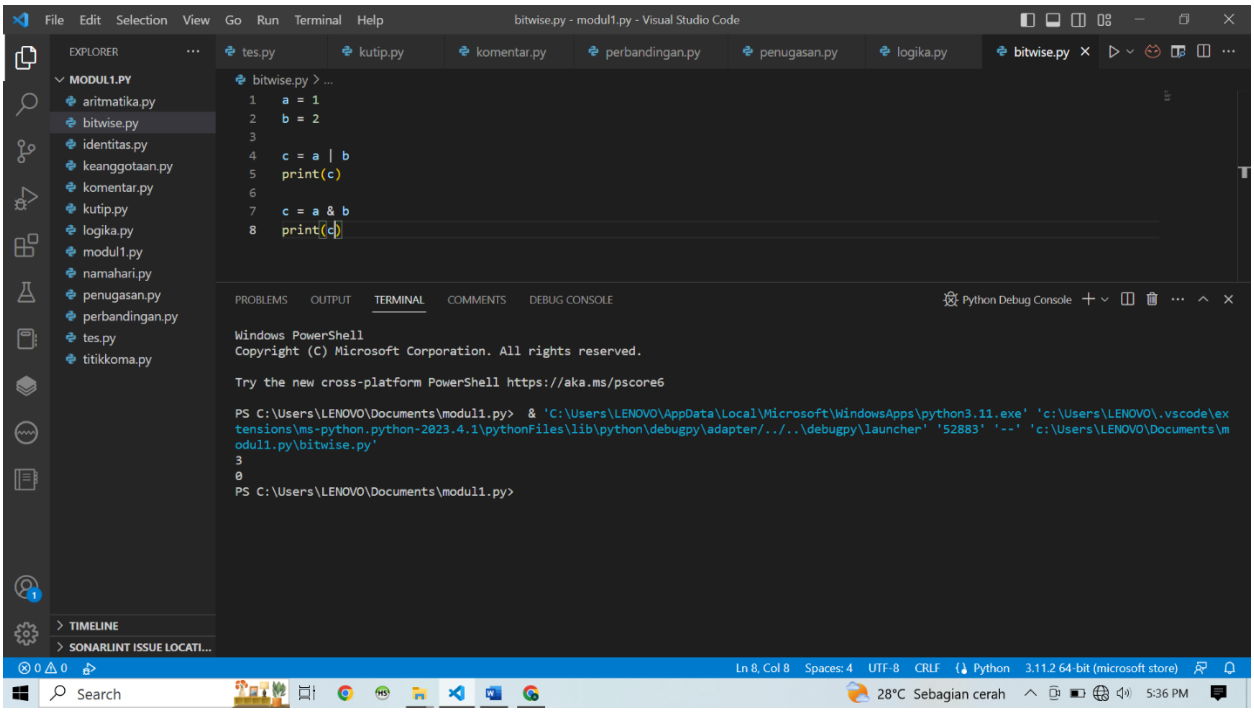
8. Operator Penugasan



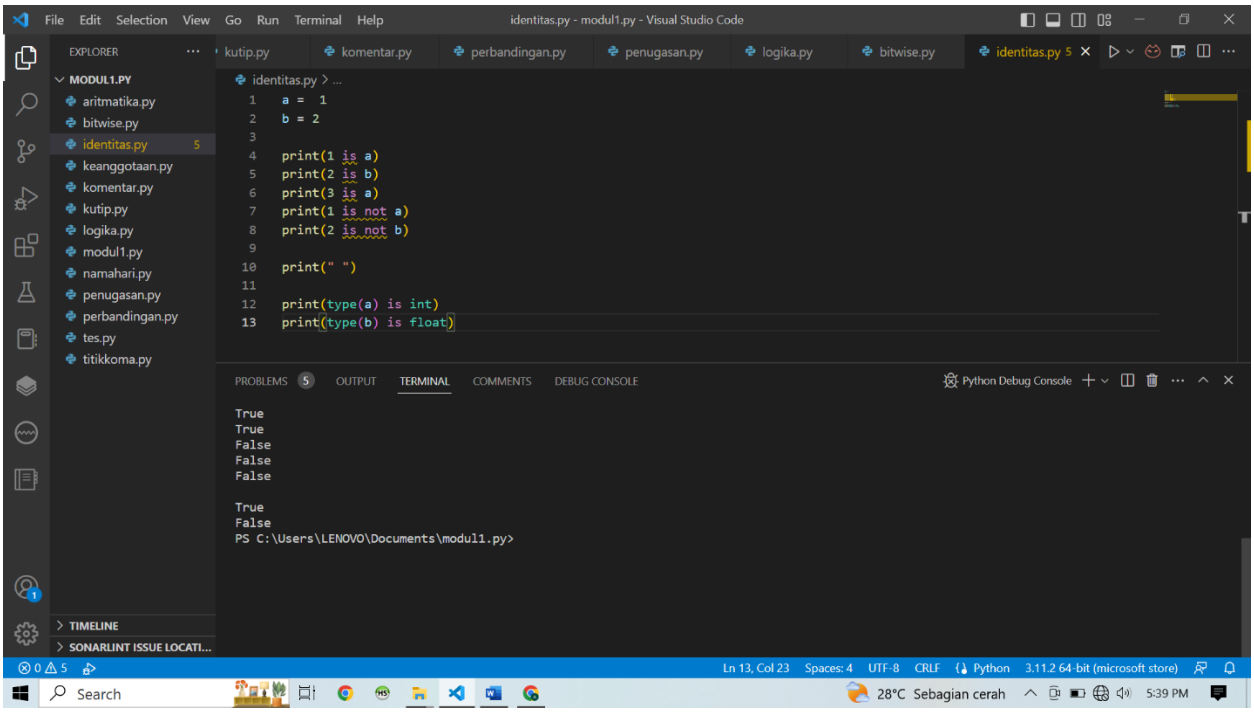
9. Operator Logika



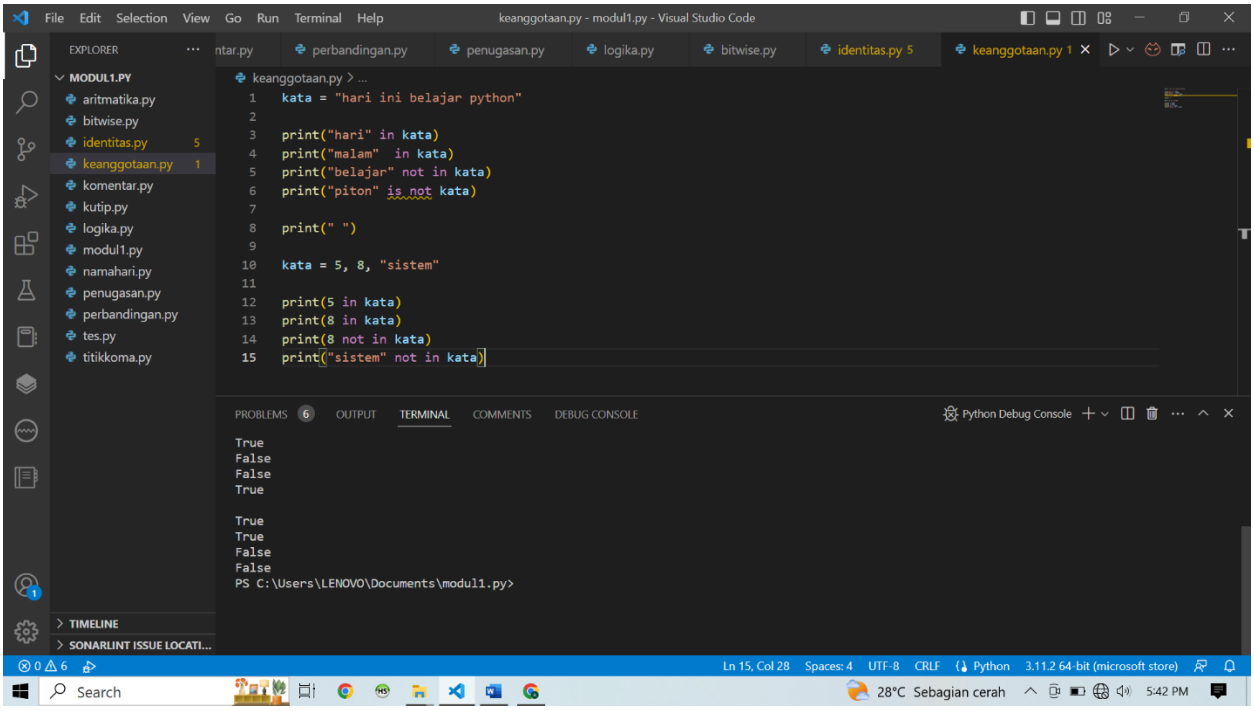
10. Operator Bitwise



11. Operator Identitas

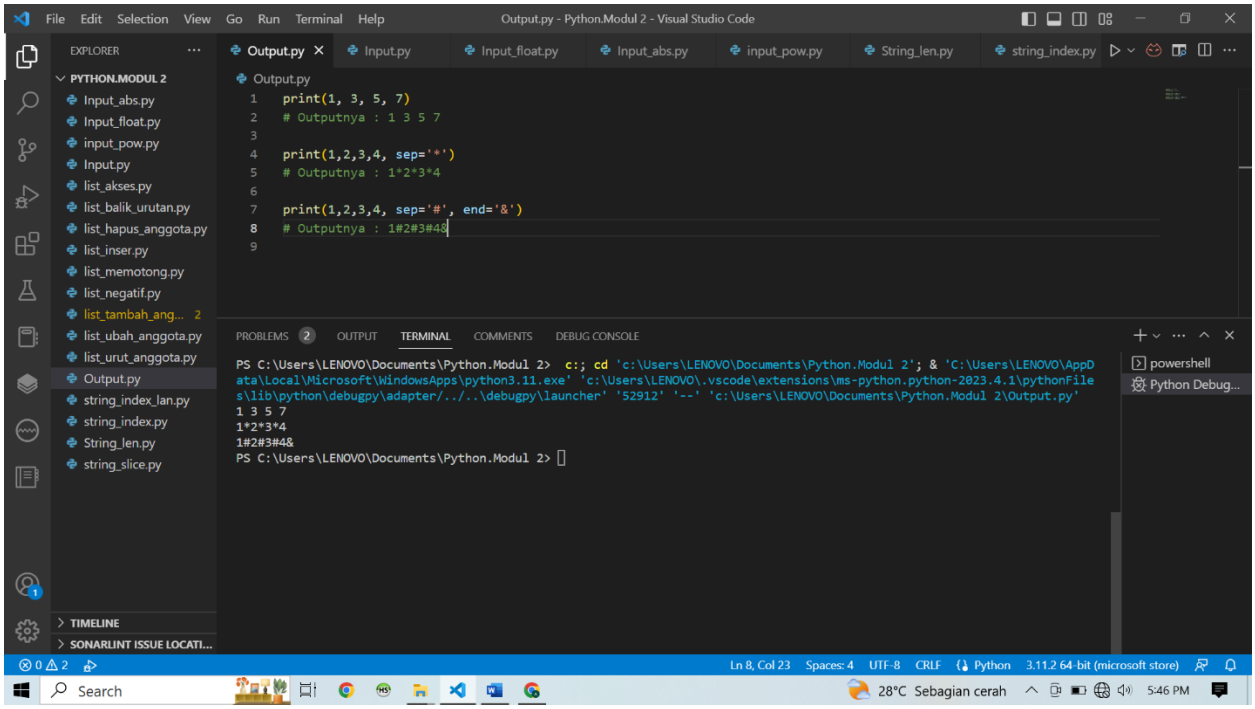


12. Operator Keanggotaan

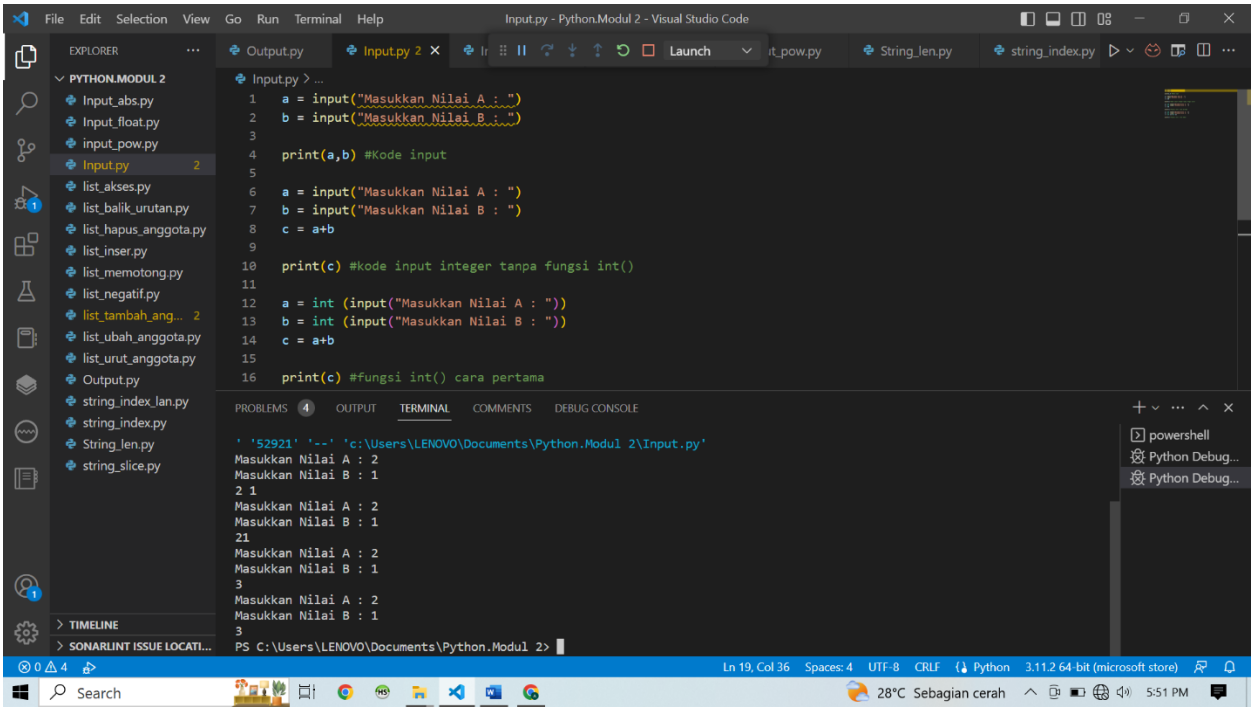


Python – Modul 2

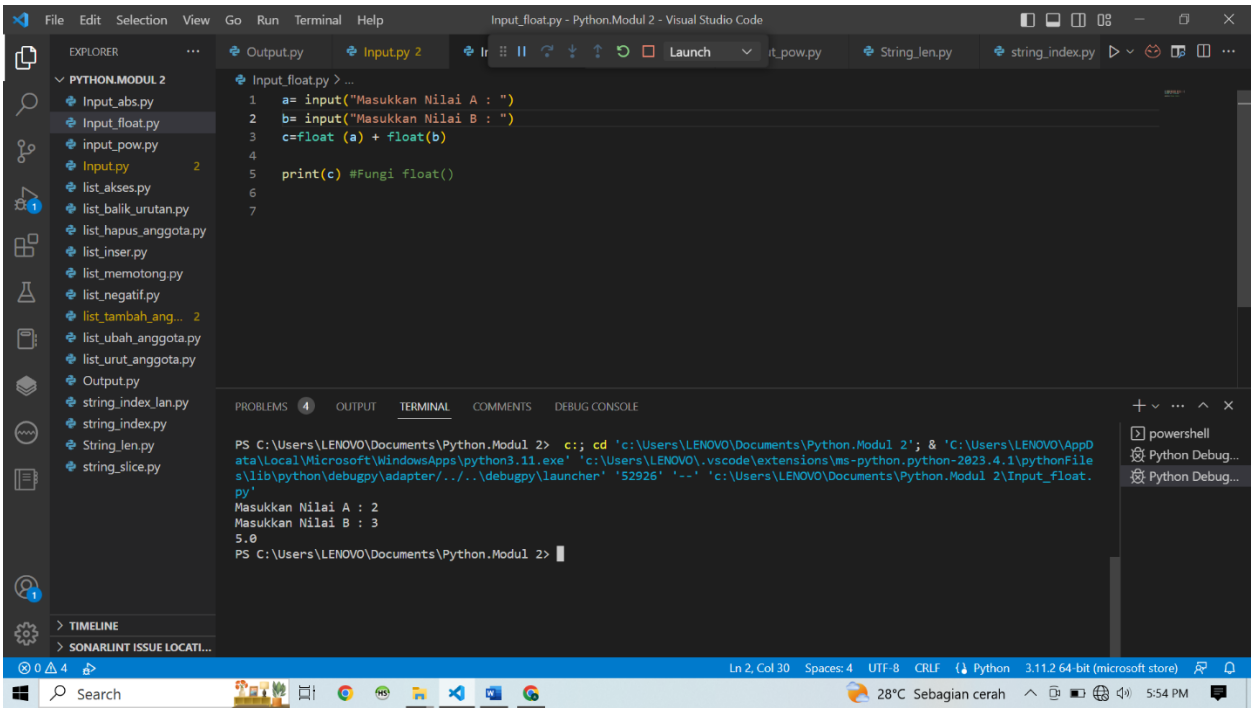
1. Output



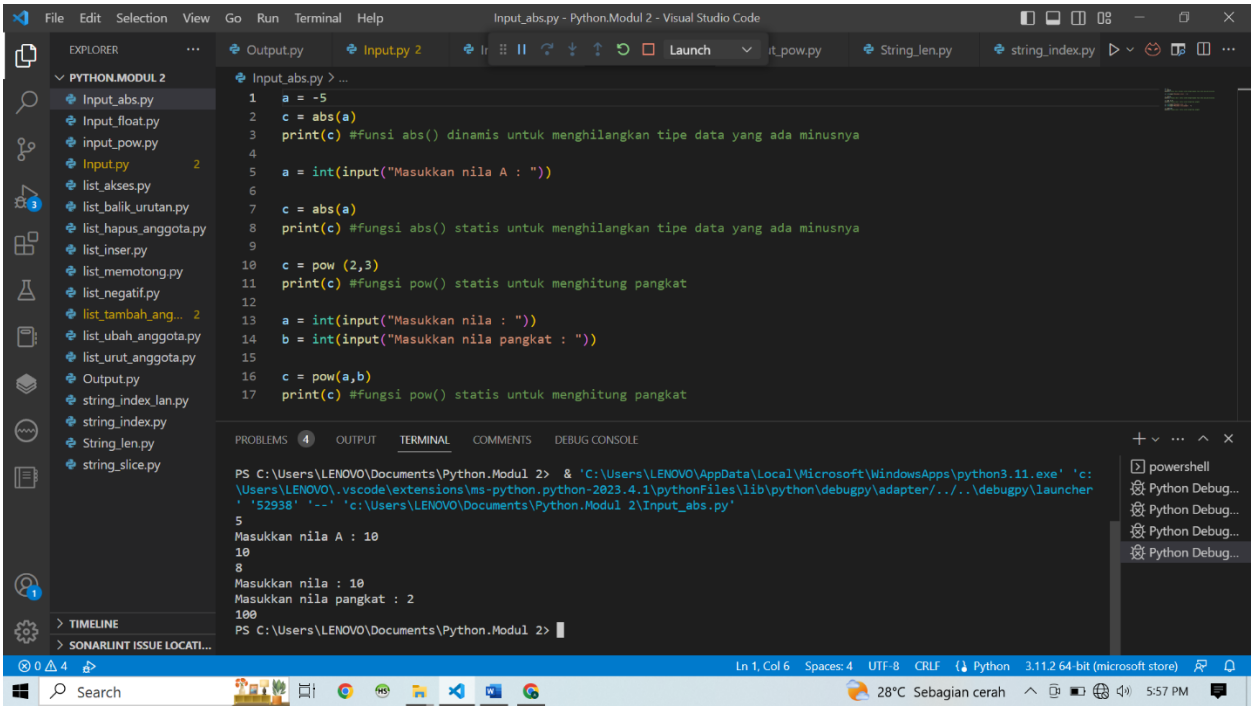
2. Input



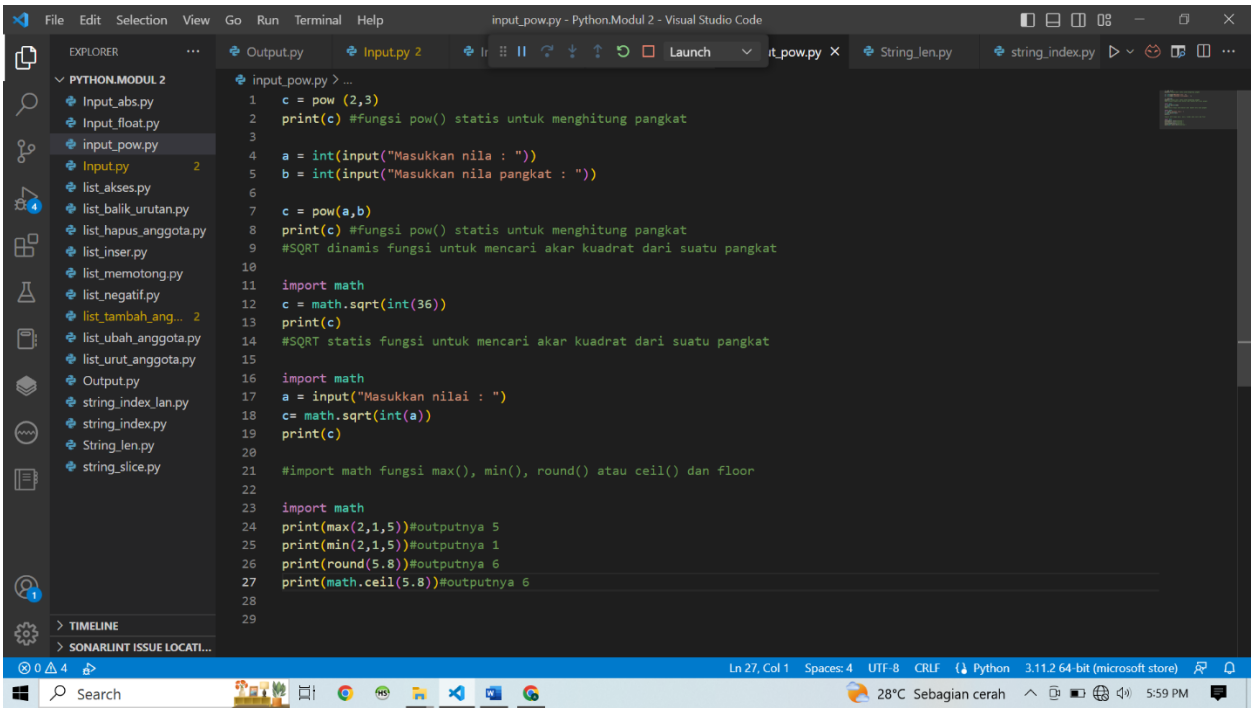
3. Input Float



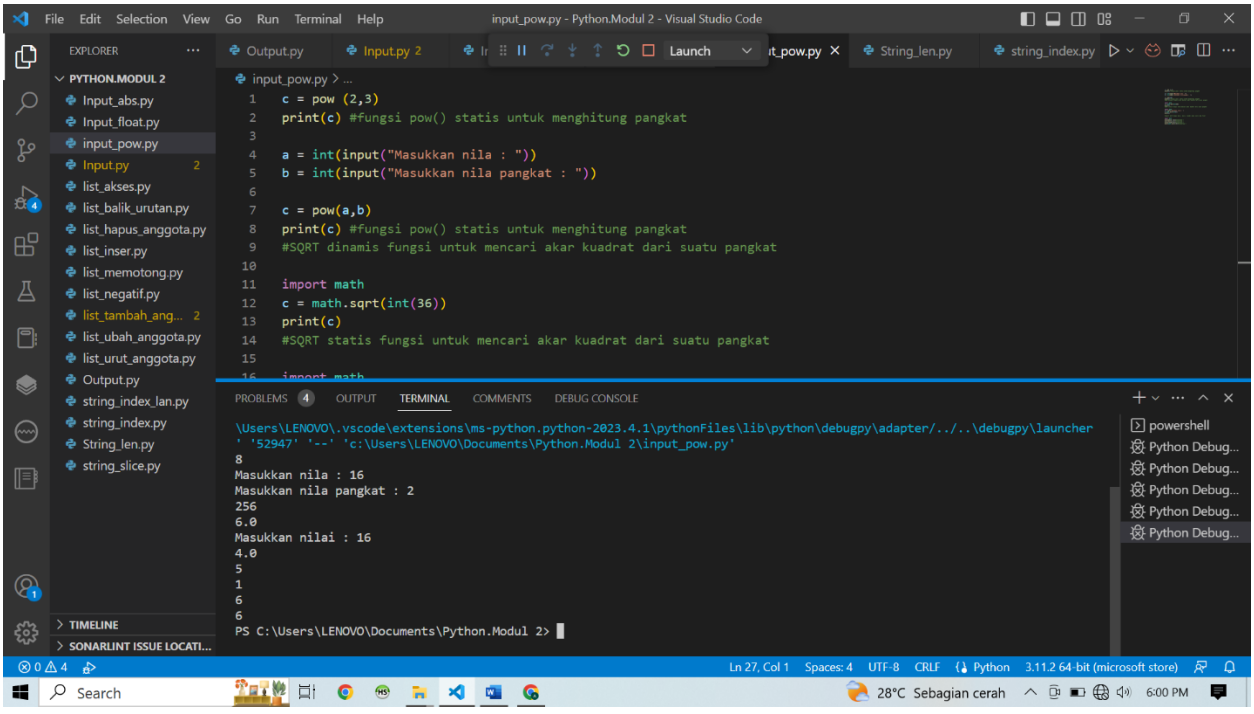
4. Input abs



5. Input Fungsi Pow

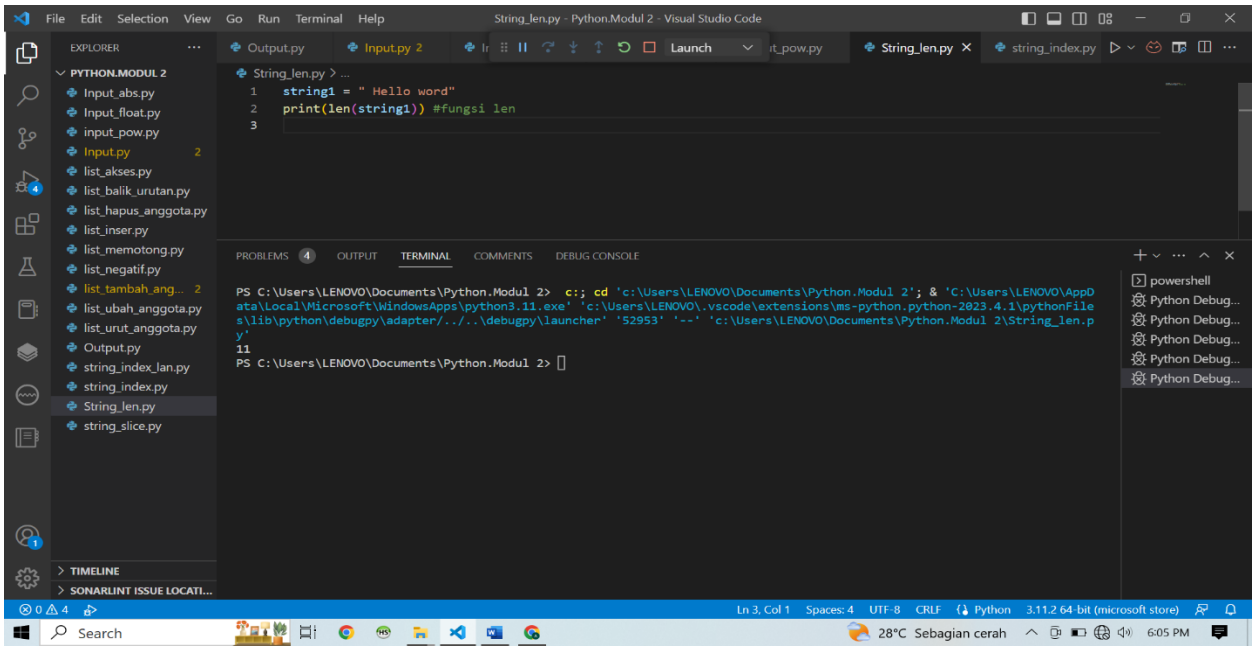


Output :

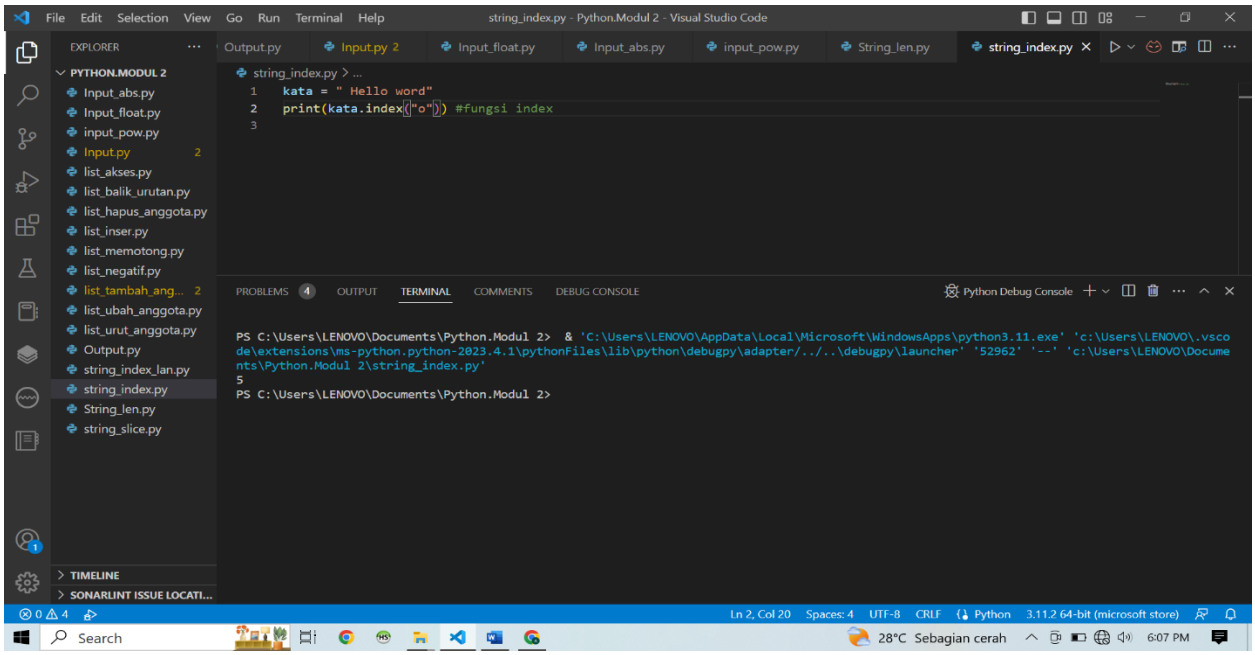


6. Operator String

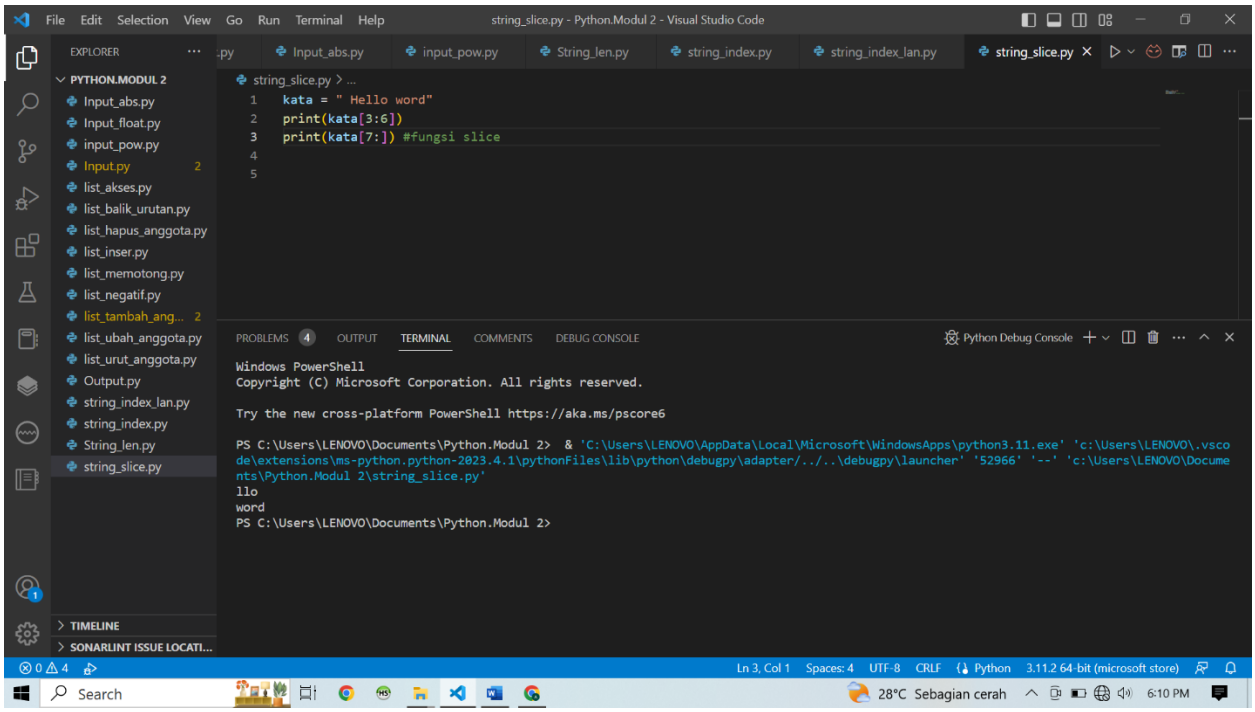
a. Strng Fungsi Len



b. String Fungsi Index

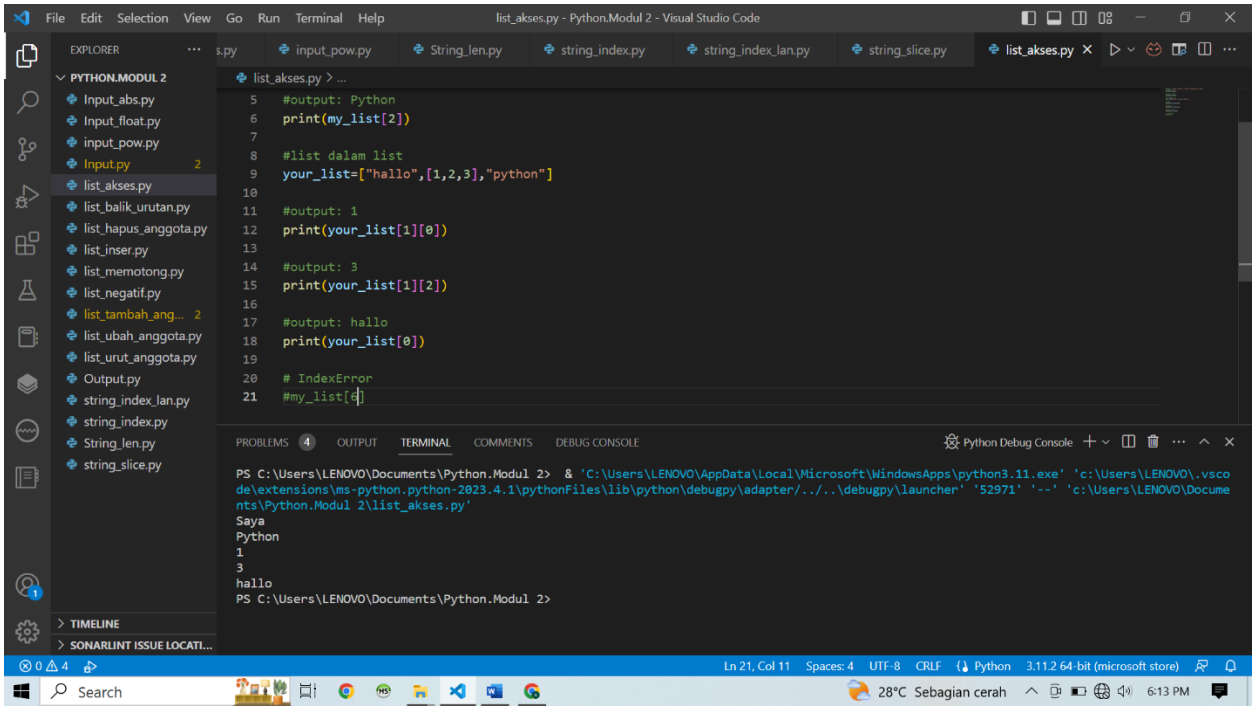


c. Range Slice

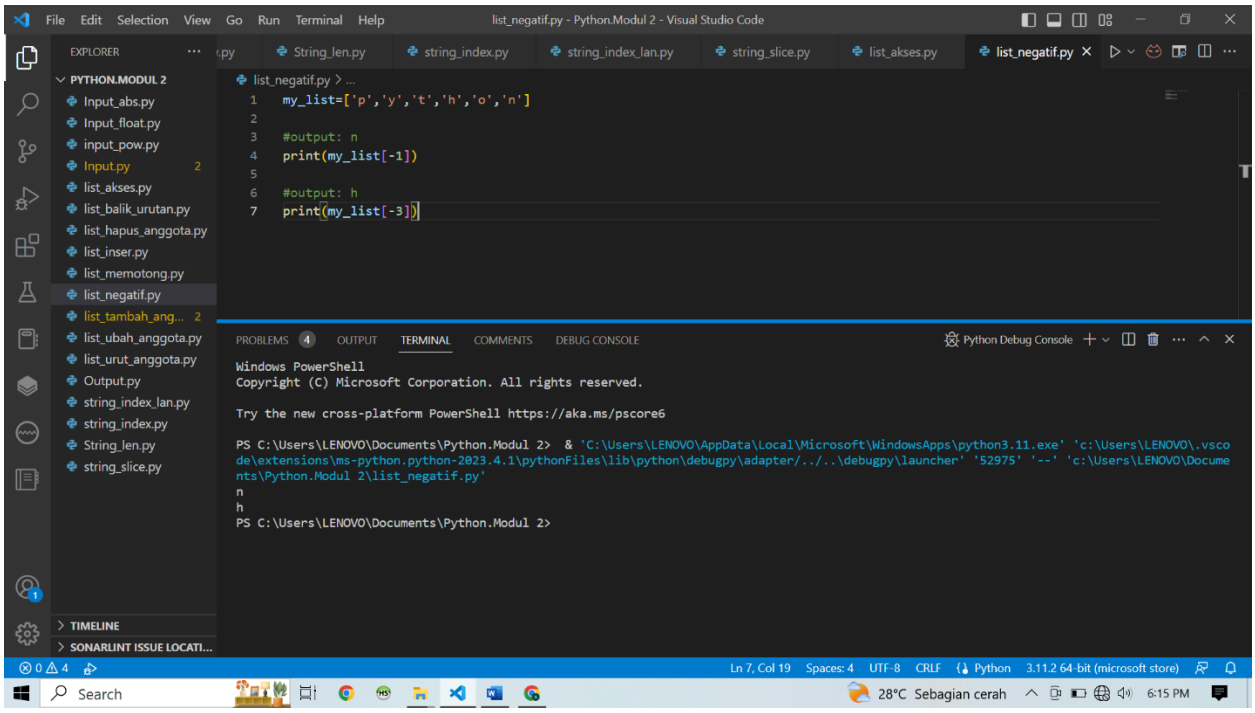


7. List

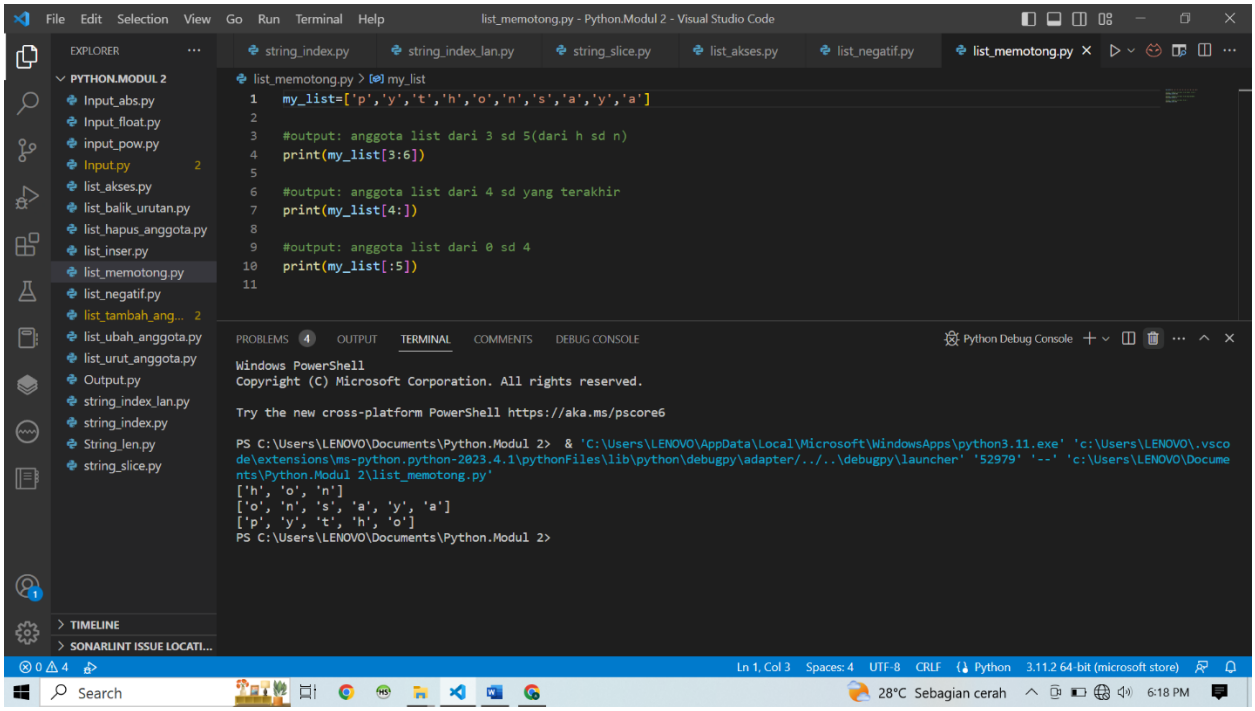
a. Mengakses Anggota List



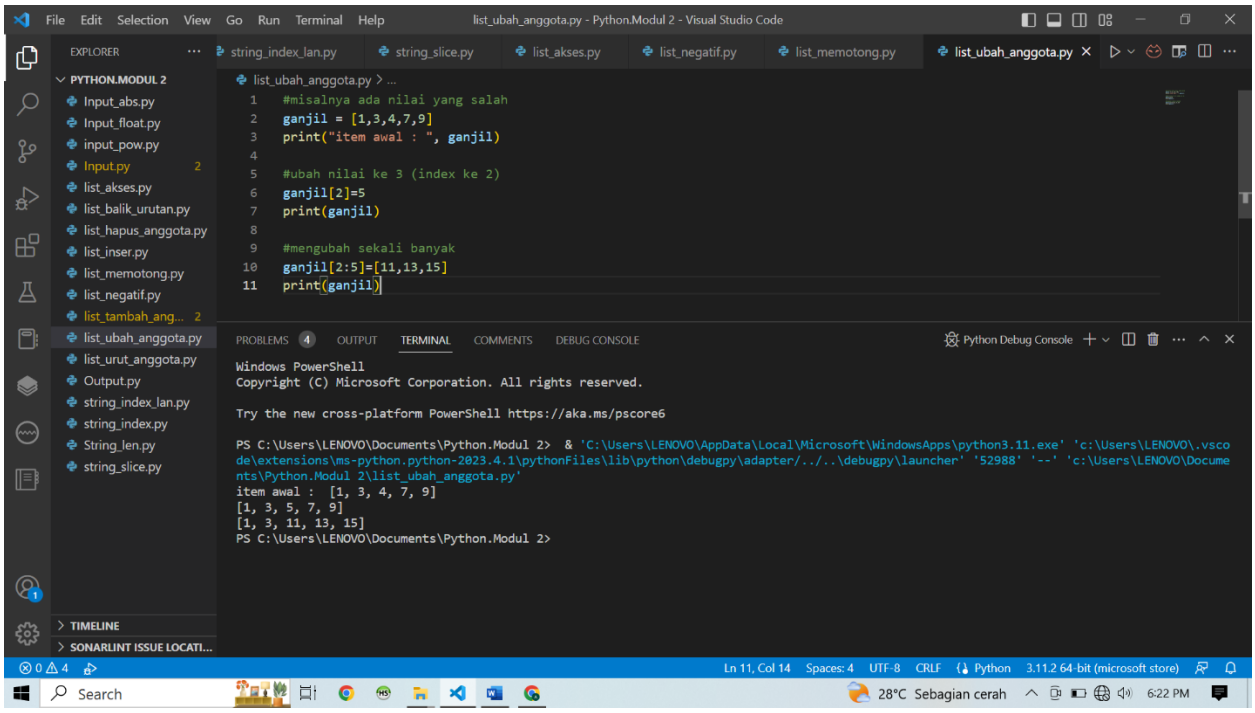
b. List dengan Indeks Negatif



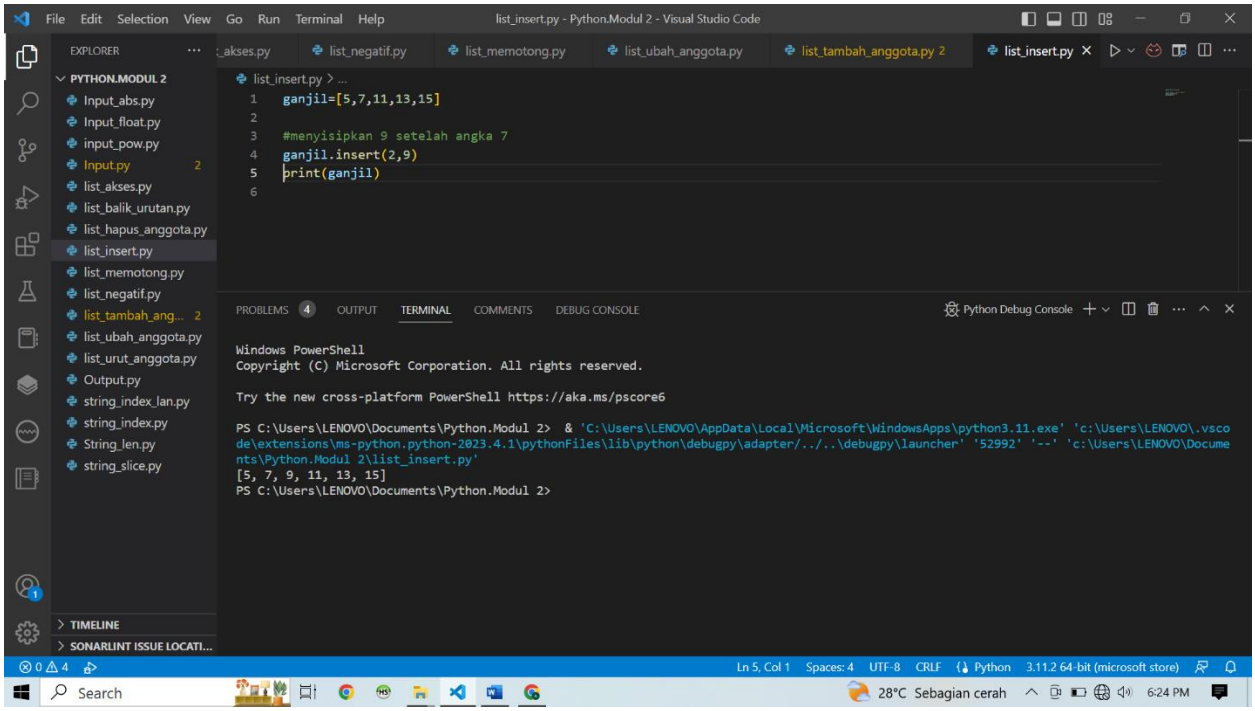
c. Memotong (Slicing) List



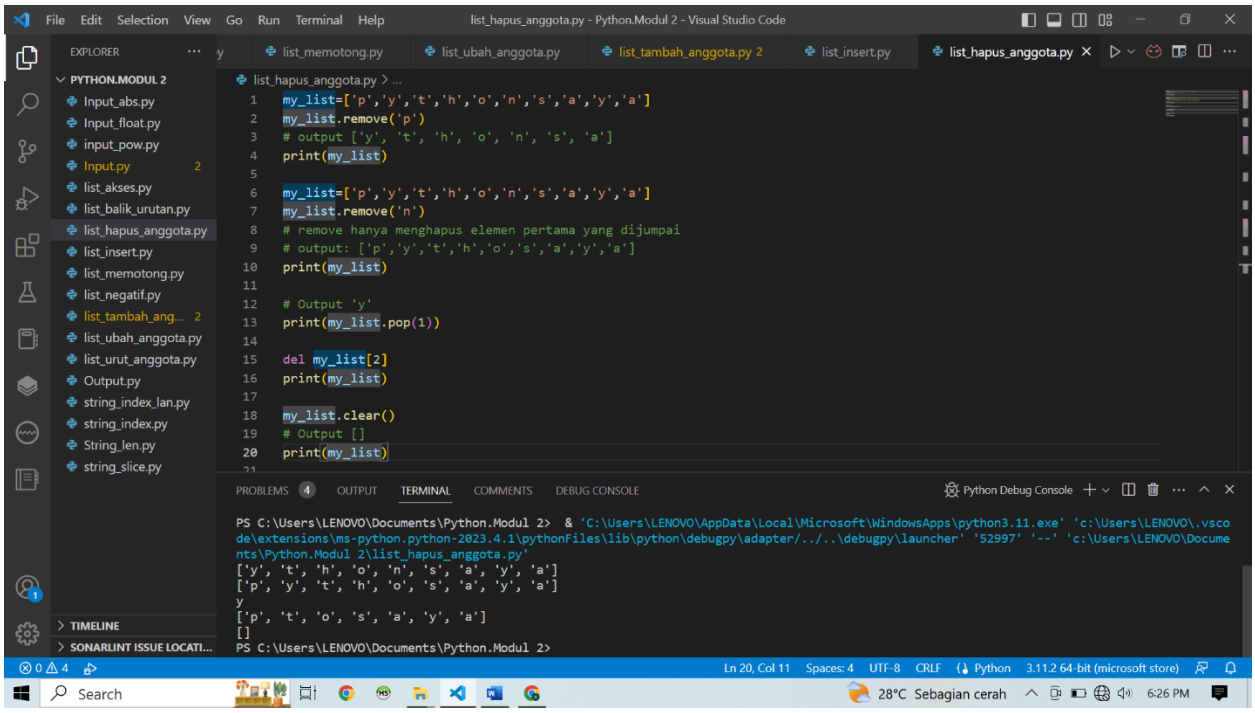
d. Mengubah Anggota List



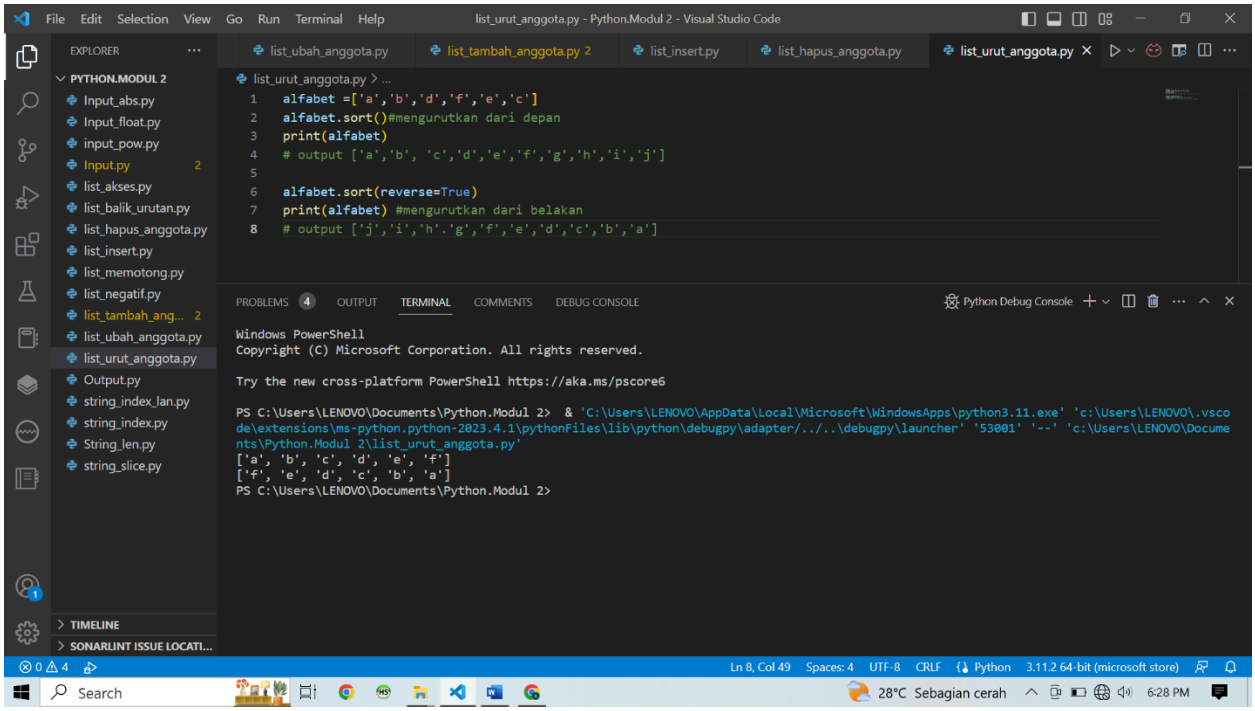
e. Menyisipkan Anggota List



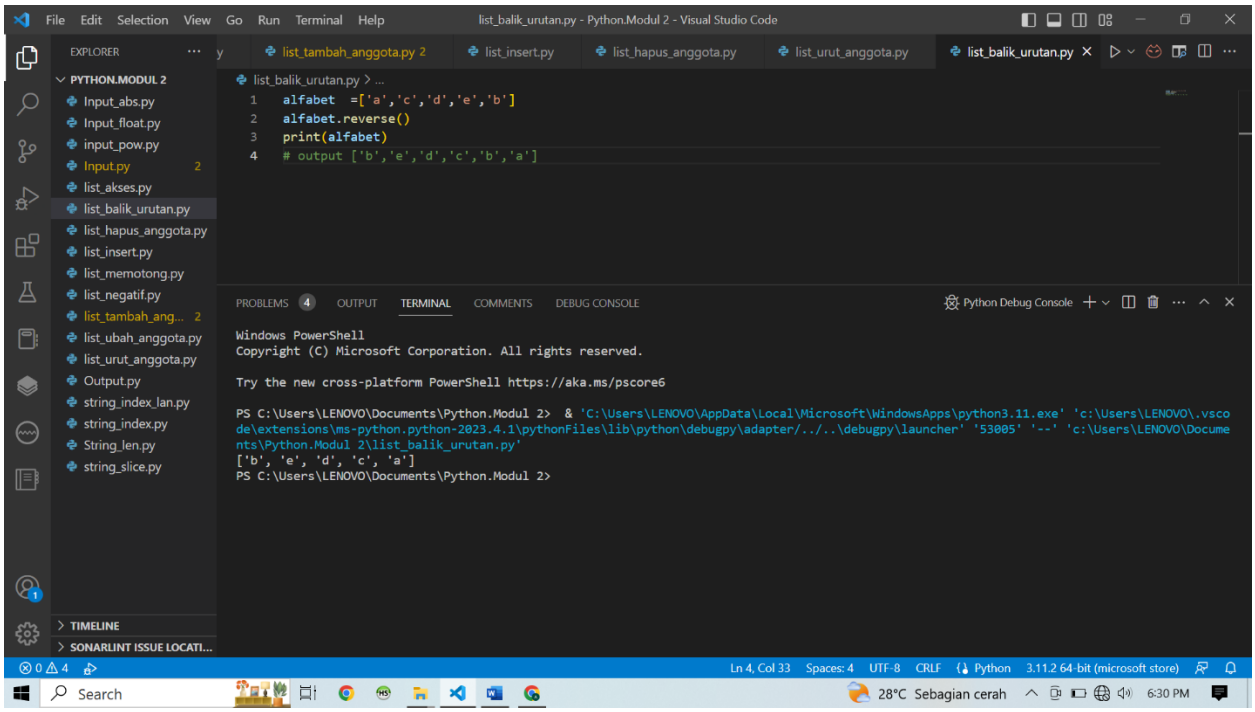
f. Menghapus Anggota List



g. Mengurutkan Anggota List

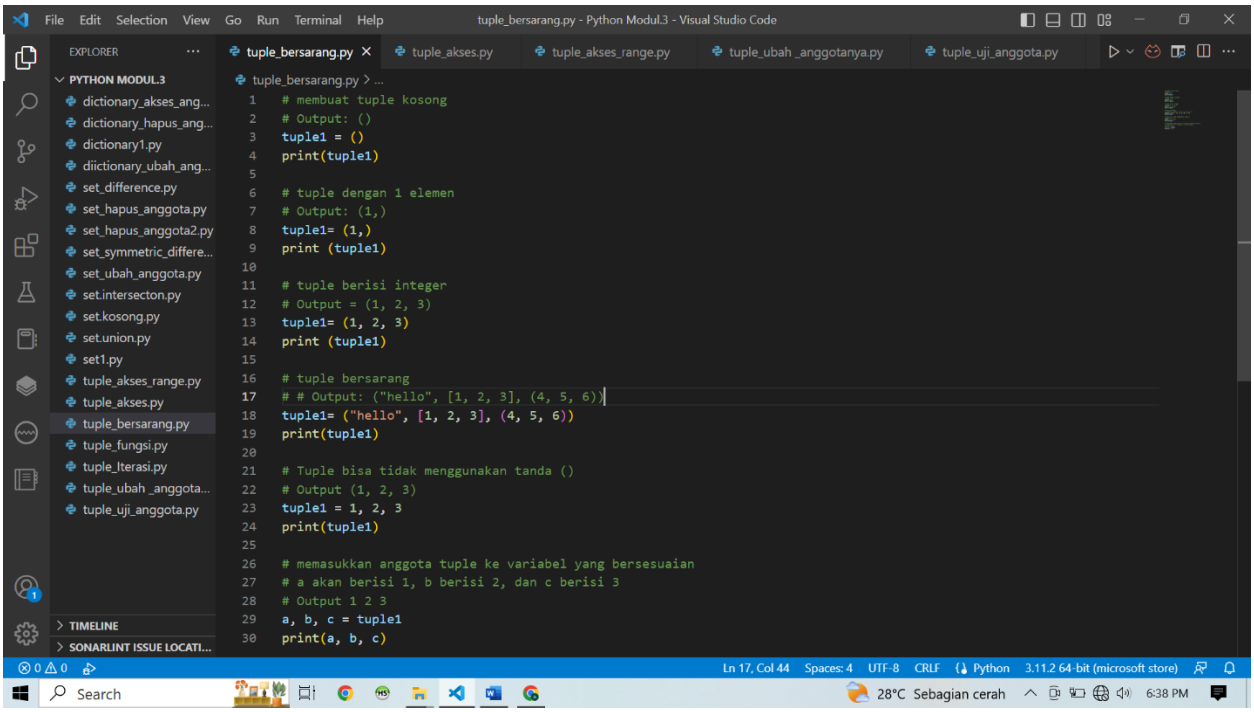


h. Membalik Anggota List

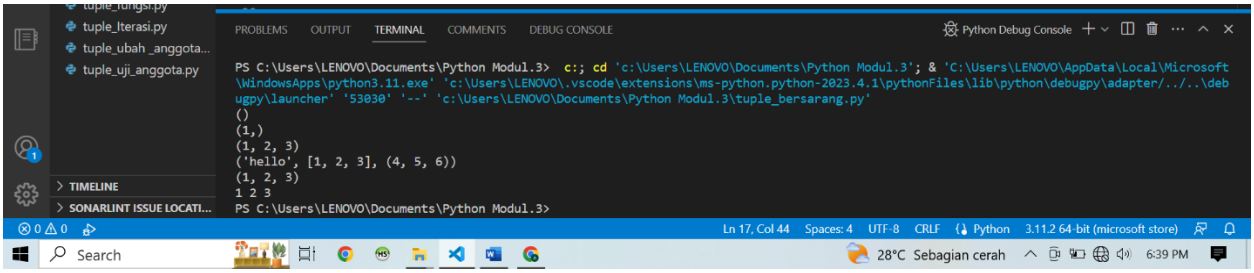


Python – Modul 3

1. Membuat Tuple

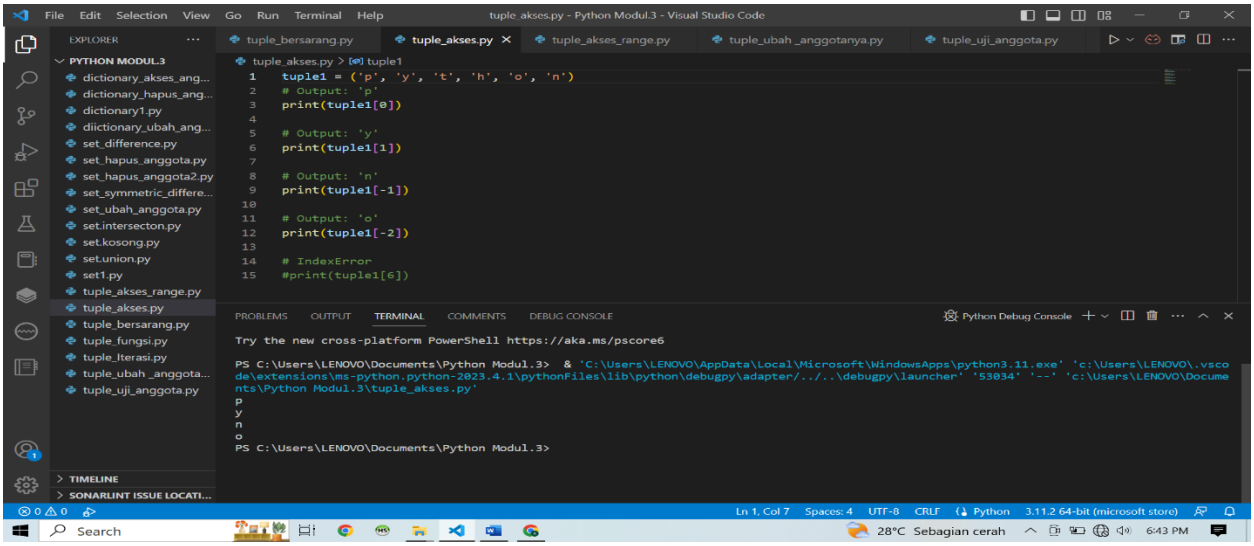


```
# membuat tuple kosong
# Output: ()
tuple1 = ()
print(tuple1)

# tuple dengan 1 elemen
# Output: (1,)
tuple1= (1,)
print (tuple1)

# tuple berisi integer
# Output = (1, 2, 3)
tuple1= (1, 2, 3)
print (tuple1)

# tuple bersarang
# # Output: ("hello", [1, 2, 3], (4, 5, 6))
tuple1= ("hello", [1, 2, 3], (4, 5, 6))
print(tuple1)

# Tuple bisa tidak menggunakan tanda ()
# Output (1, 2, 3)
tuple1 = 1, 2, 3
print(tuple1)

# memasukkan anggota tuple ke variabel yang bersesuaian
# a akan berisi 1, b berisi 2, dan c berisi 3
# Output 1 2 3
a, b, c = tuple1
print(a, b, c)
```



```
PS C:\Users\LENOVO\Documents\Python Modul.3>  c:; cd 'c:\Users\LENOVO\Documents\Python Modul.3'; & 'C:\Users\LENOVO\AppData\Local\Microsoft
\WindowsApps\python3.11.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter/../..\deb
ugpy\launcher' '53030' '--' 'c:\Users\LENOVO\Documents\Python Modul.3\tuple_bersarang.py'
()
(1,)
(1, 2, 3)
('hello', [1, 2, 3], (4, 5, 6))
(1, 2, 3)
1 2 3
PS C:\Users\LENOVO\Documents\Python Modul.3>
```

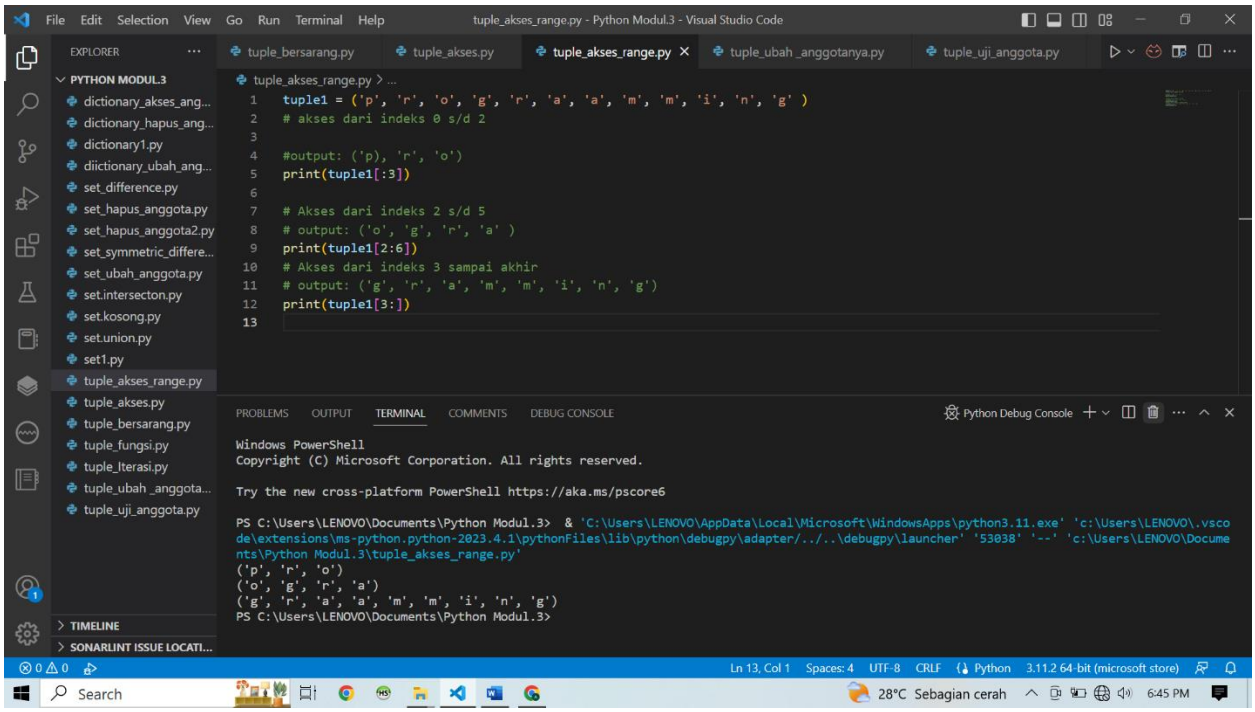
2. Mengakses Anggota Tuple



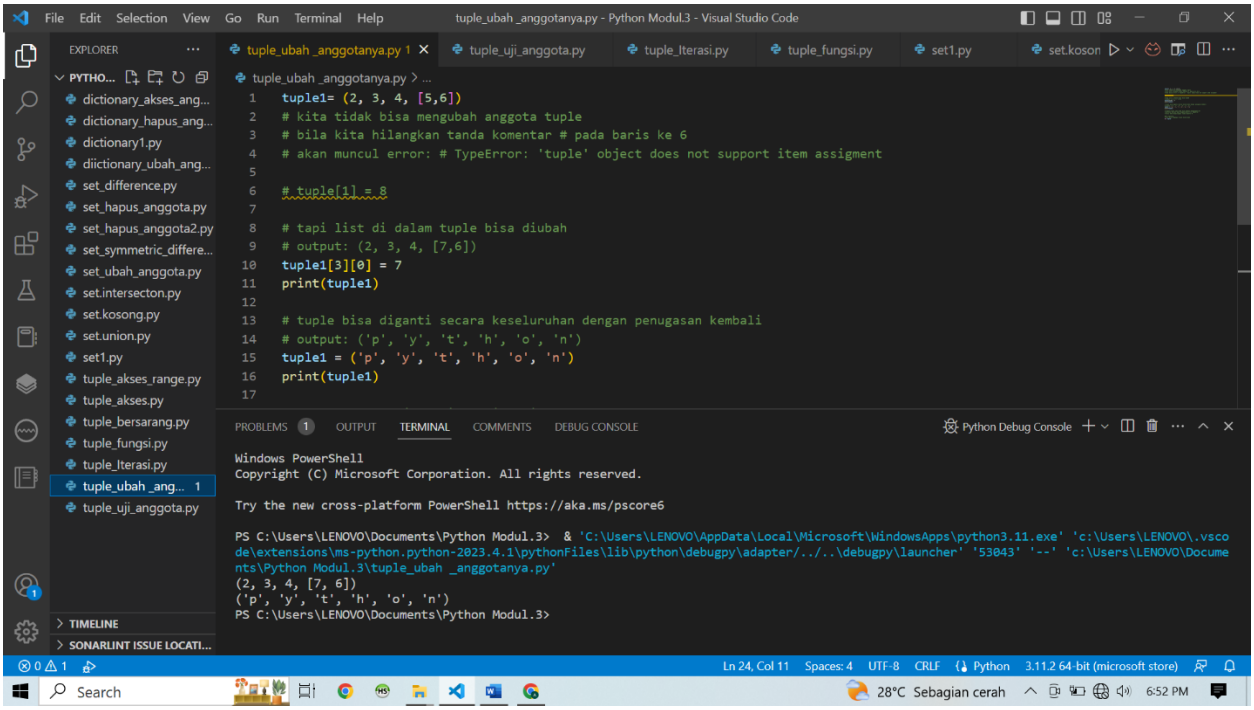
```
tuple1 = ('p', 'y', 't', 'h', 'o', 'n')
# Output: 'p'
print(tuple1[0])

# Output: 'y'
print(tuple1[1])

# Output: 'n'
print(tuple1[-1])

# Output: 'o'
print(tuple1[-2])

# IndexError
#print(tuple1[6])
```

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

PS C:\Users\LENOVO\Documents\Python Modul.3>  & 'C:\Users\LENOVO\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\LENOVO\.vsco
de\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '53034' '--' 'c:\Users\LENOVO\Docume
nts\Python Modul.3\tuple_akses.py'
p
y
n
o
PS C:\Users\LENOVO\Documents\Python Modul.3>
```

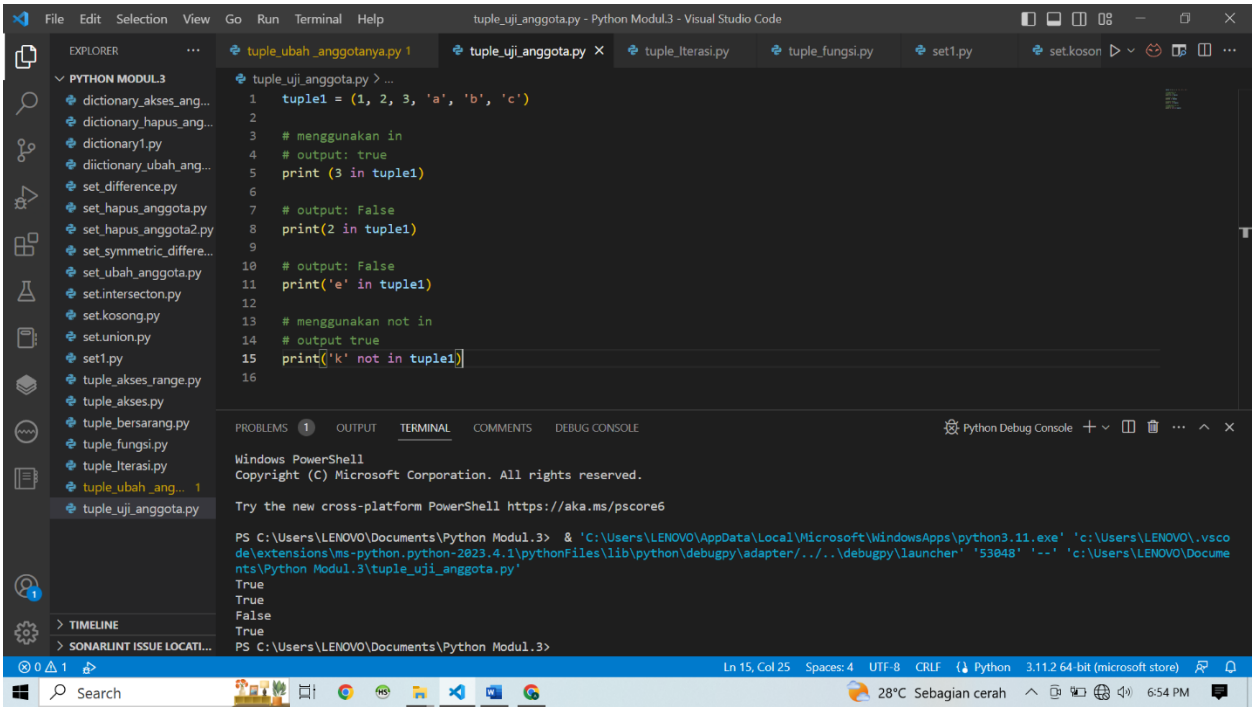
a. Mengakses Tuple dengan range



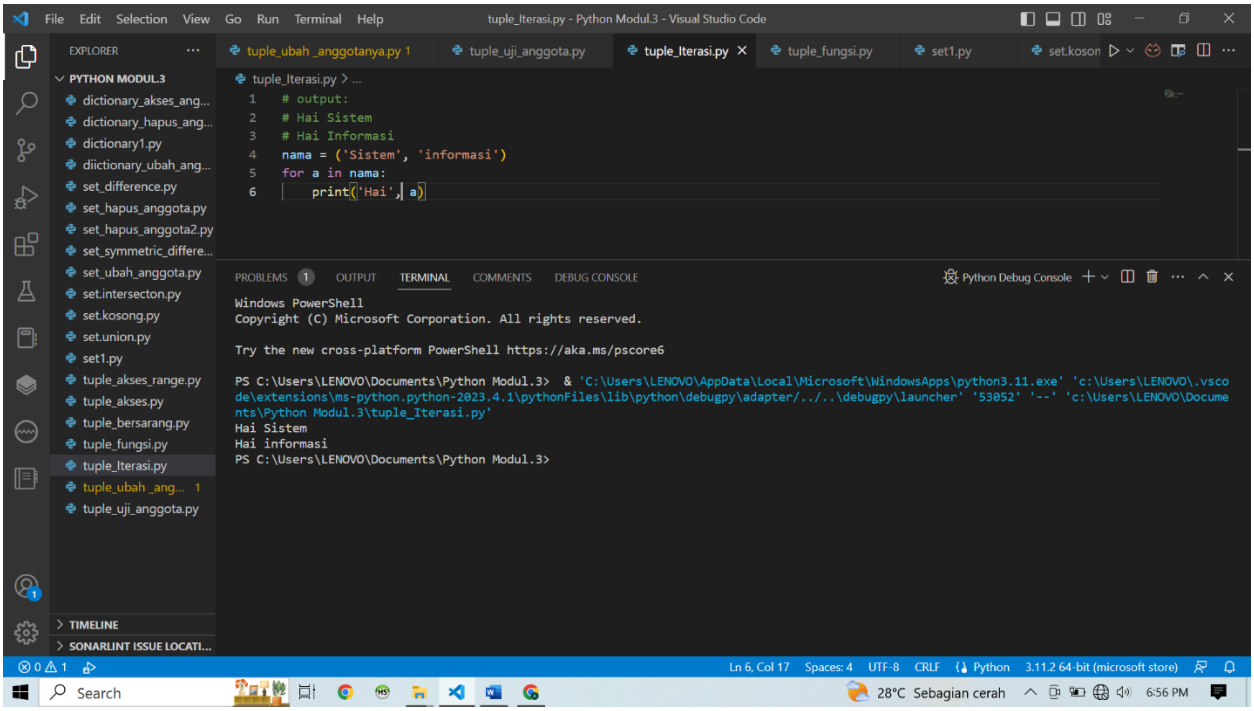
3. Mengubah Anggota Tuple



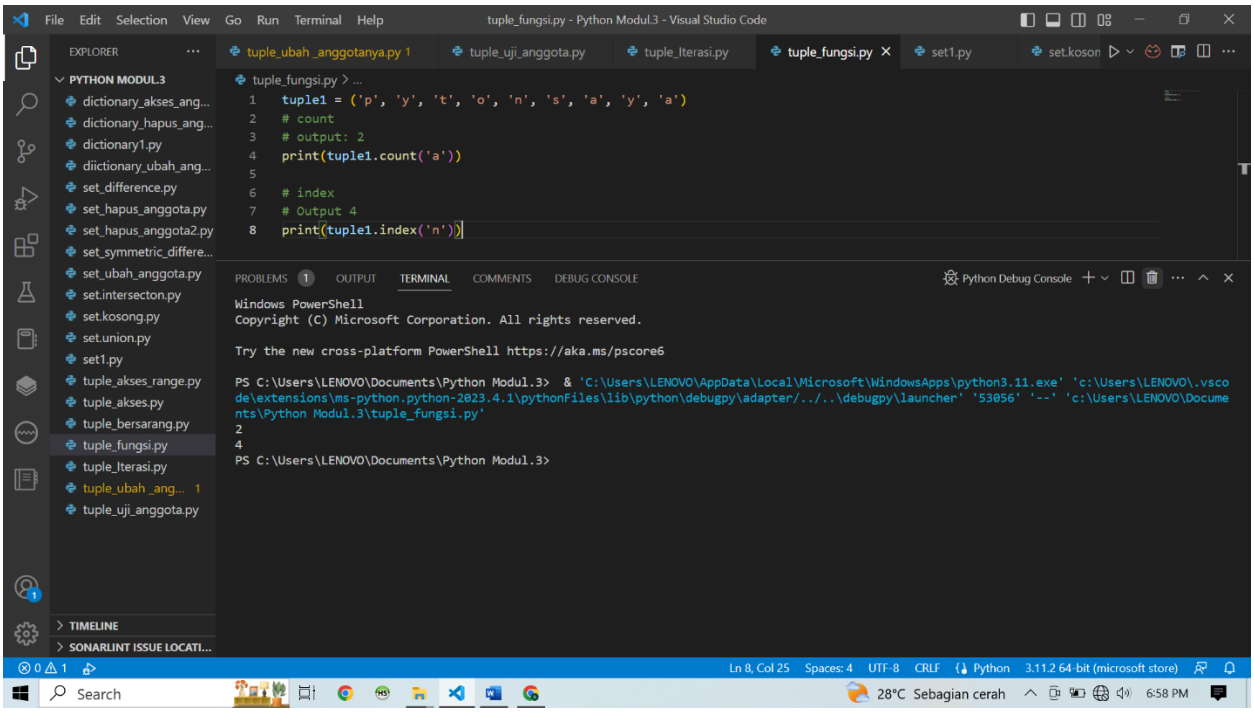
4. Menguji Keanggotaan Tuple



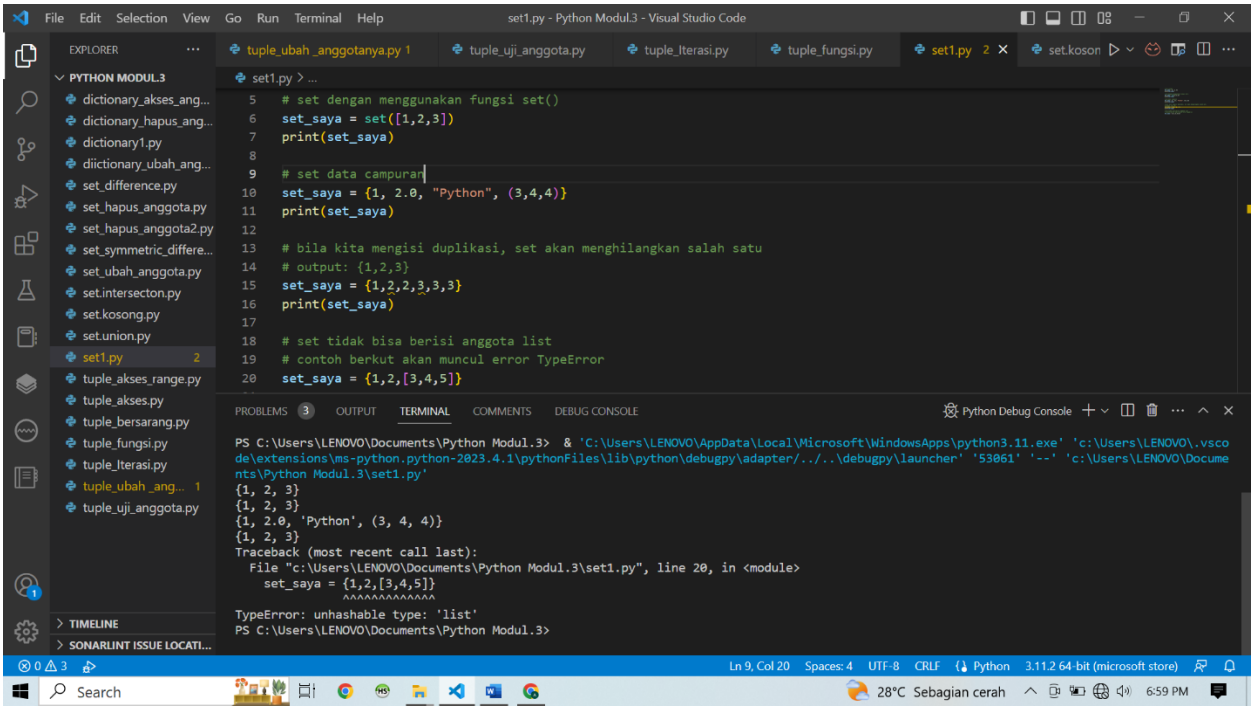
5. Iterasi pada Tuple



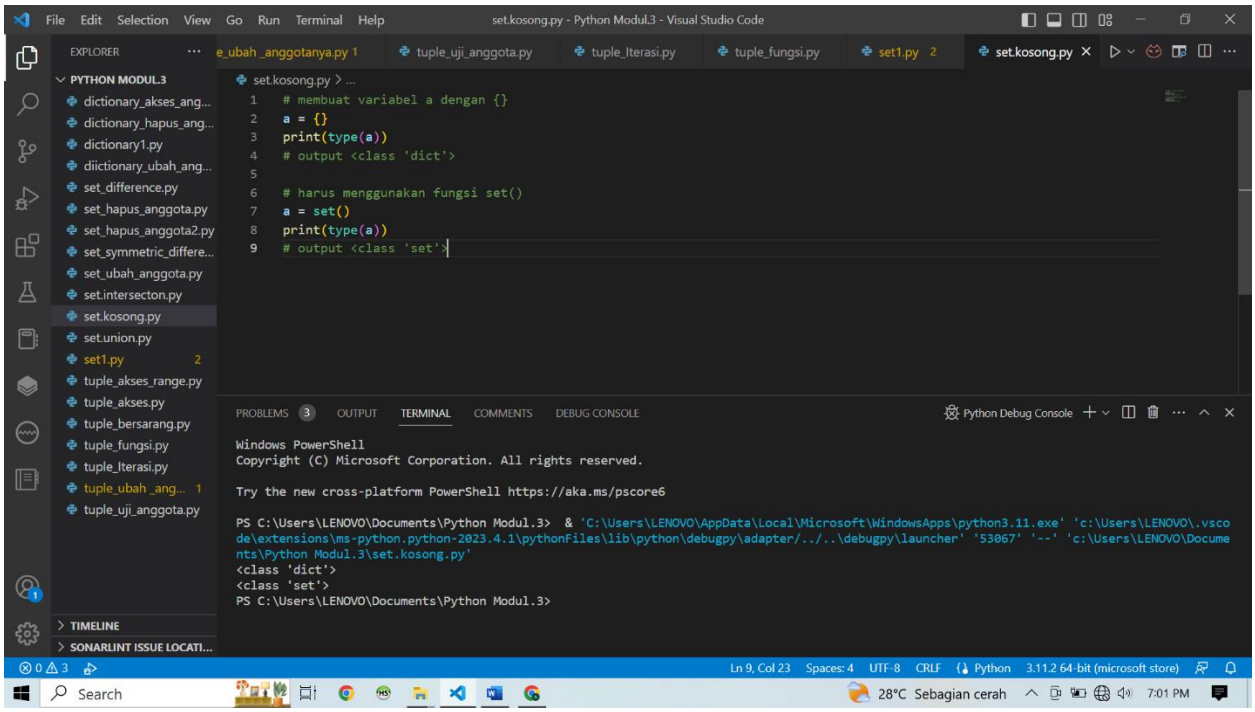
6. Metode dan Fungsi Bawaan Tuple



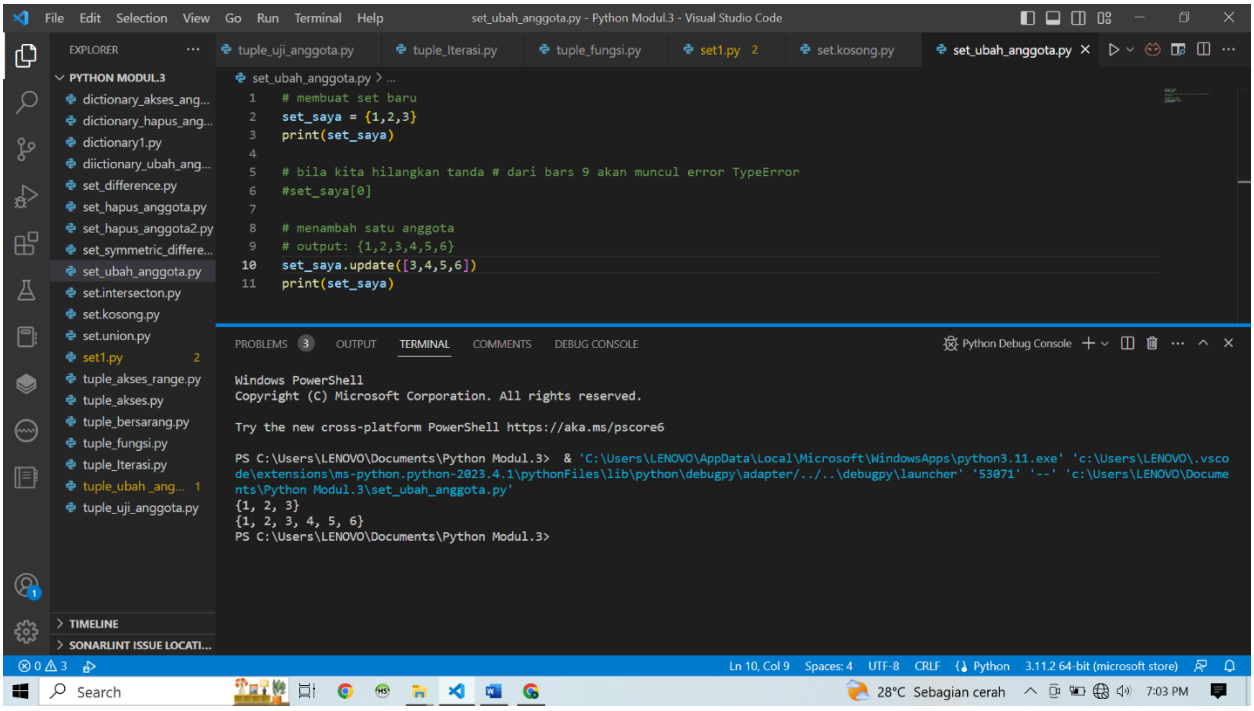
7. Membuat Set



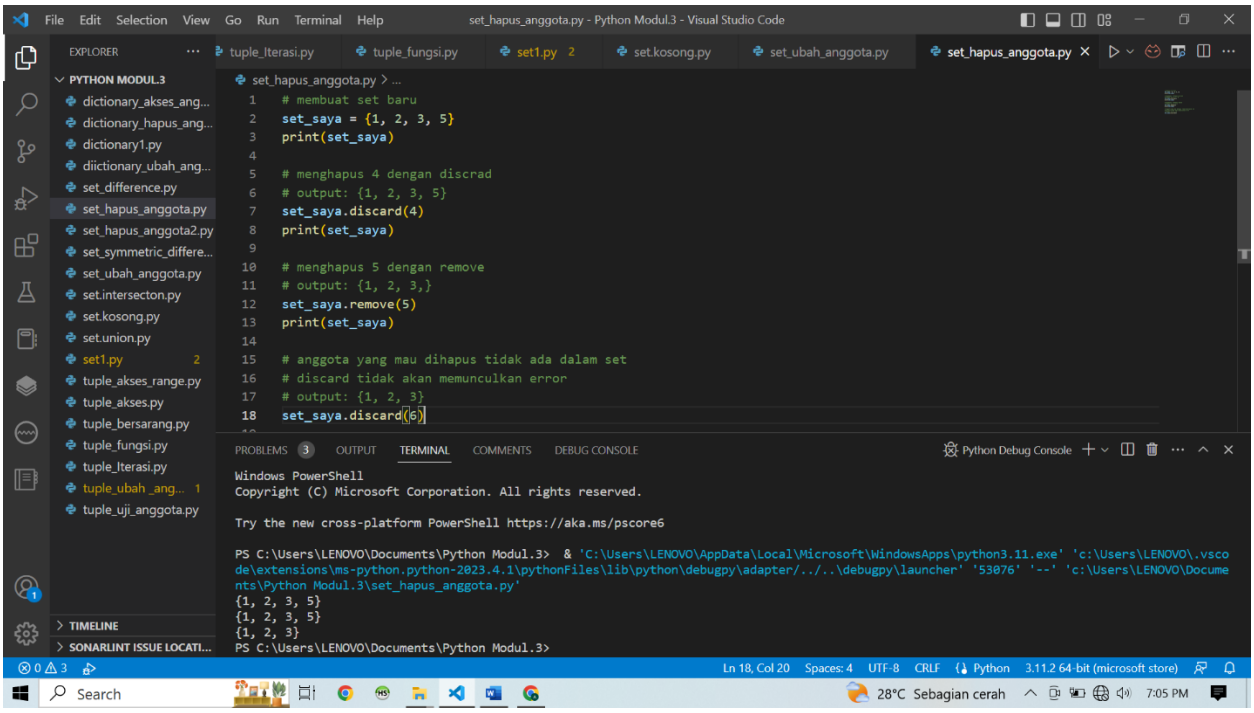
a. Set Kosong



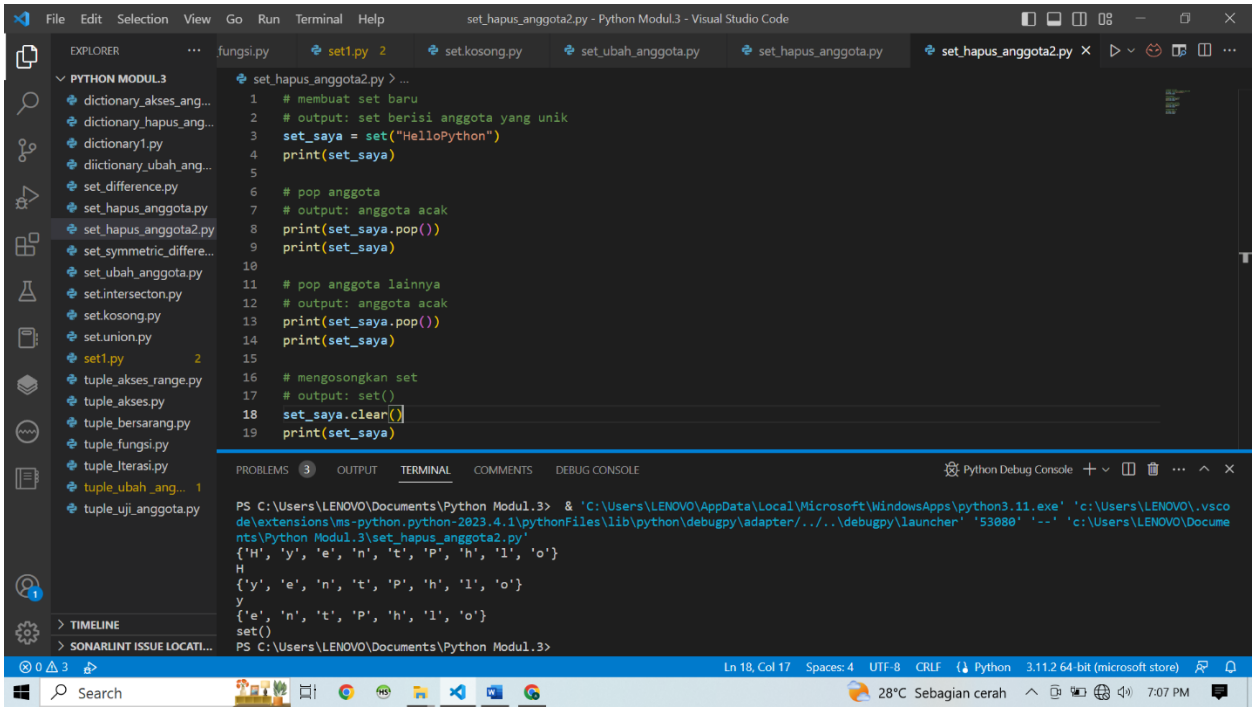
8. Mengubah Anggota Set



9. Menghapus Anggota Set

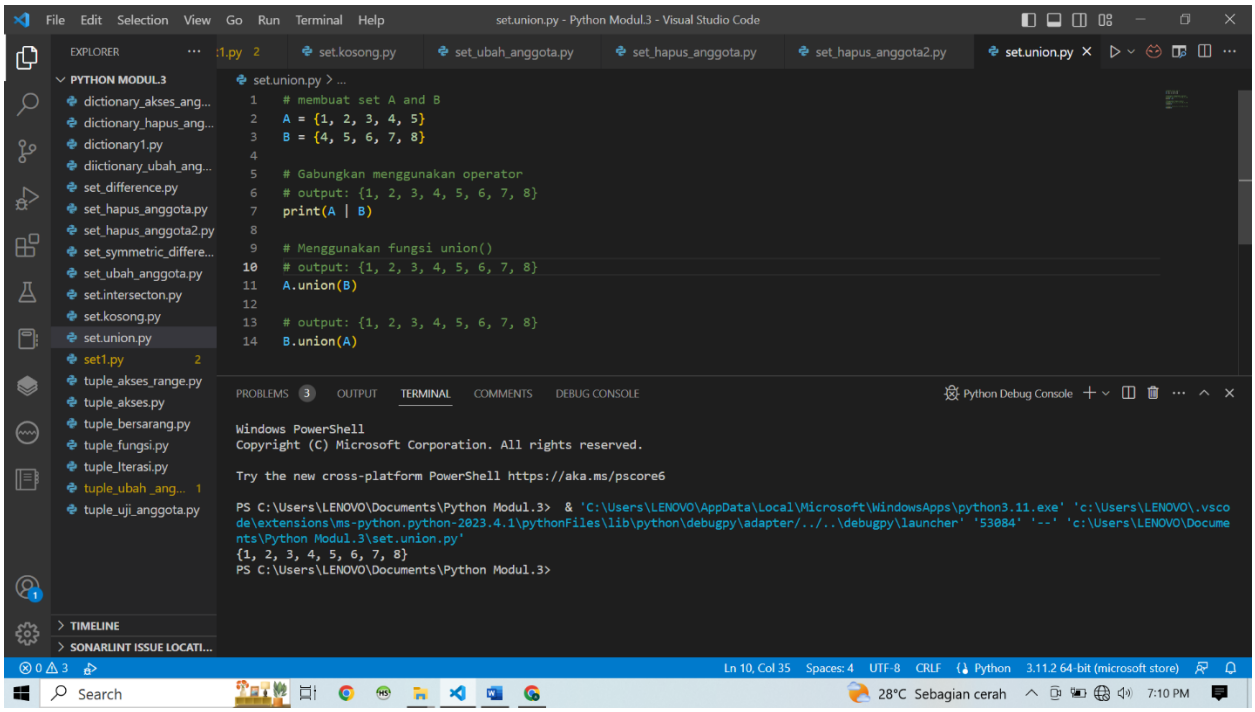


a. Menghapus Anggota Set Secara Random dengan pop()

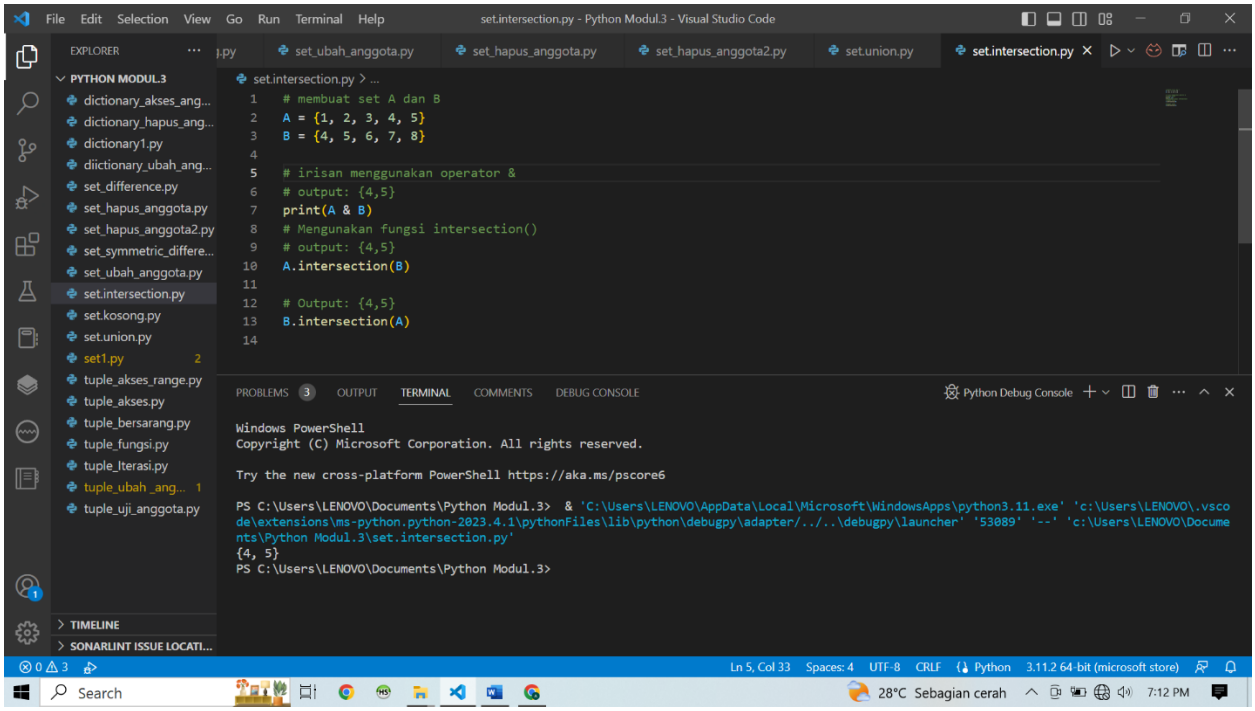


10. Operasi Set di Python

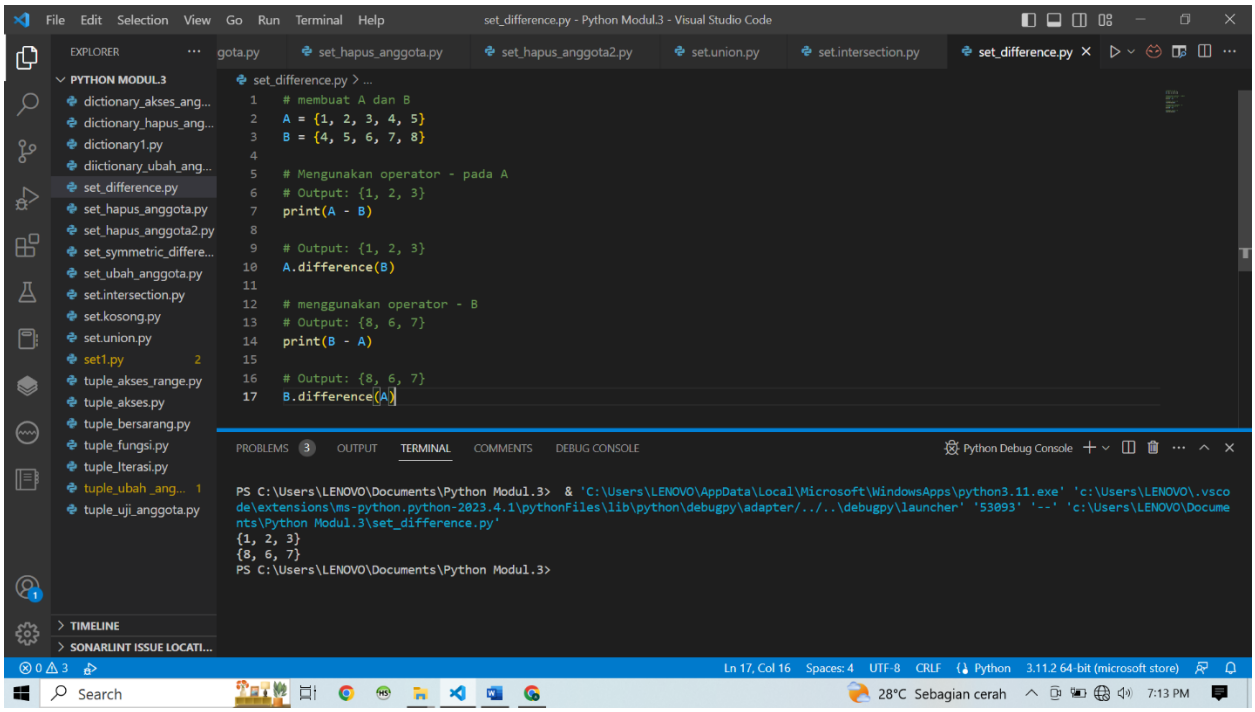
a. Operasi Gabungan (Union)



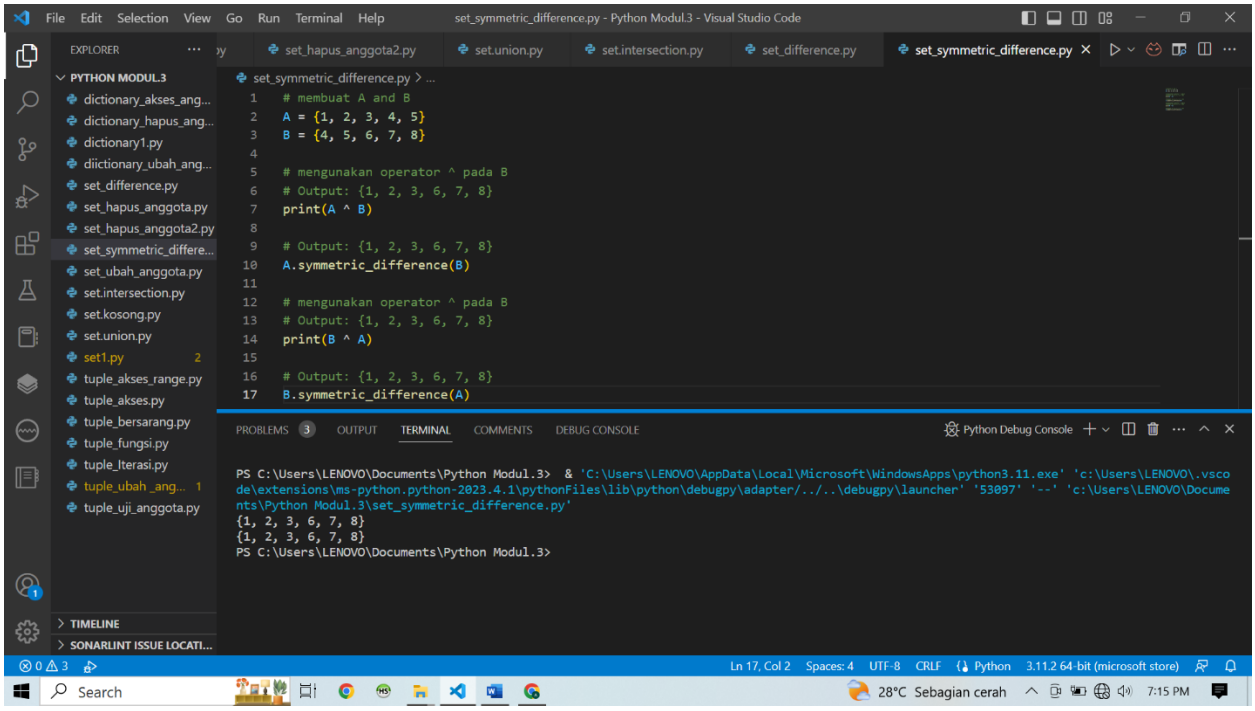
b. Operator Irisan (Intersection)



c. Operasi Selisi (Difference)

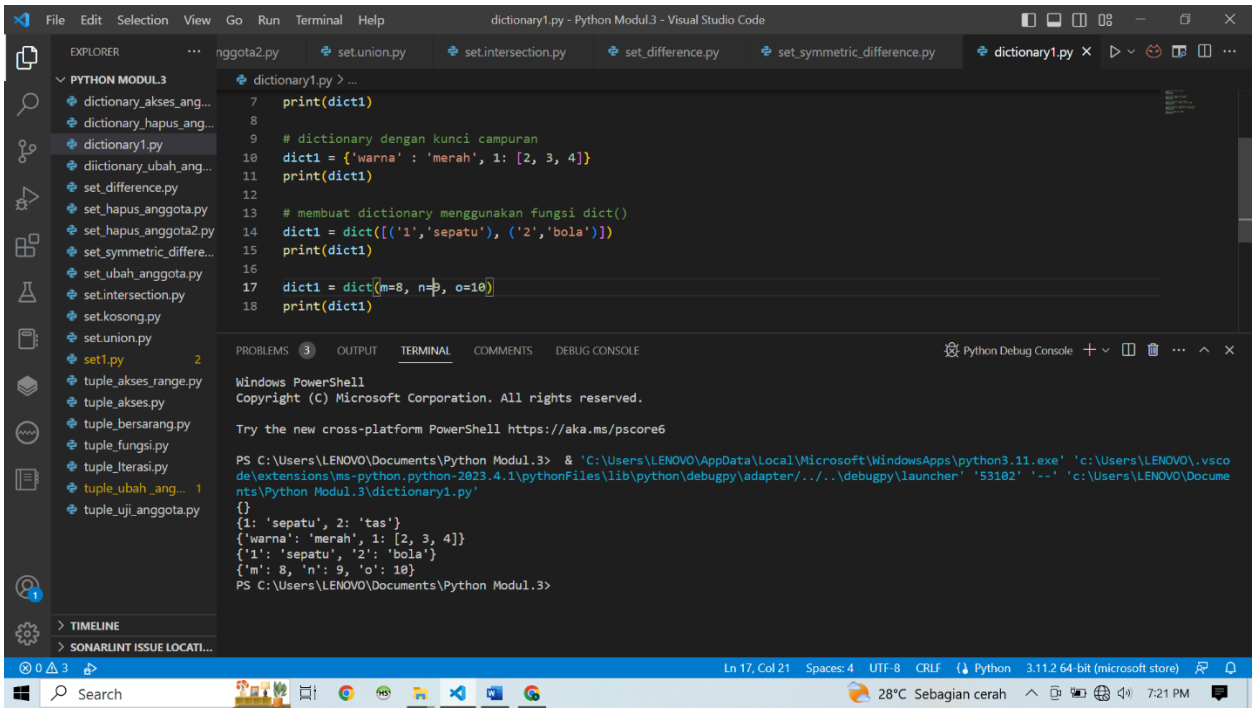


d. Operasi Komplemen (Symmetric Difference)

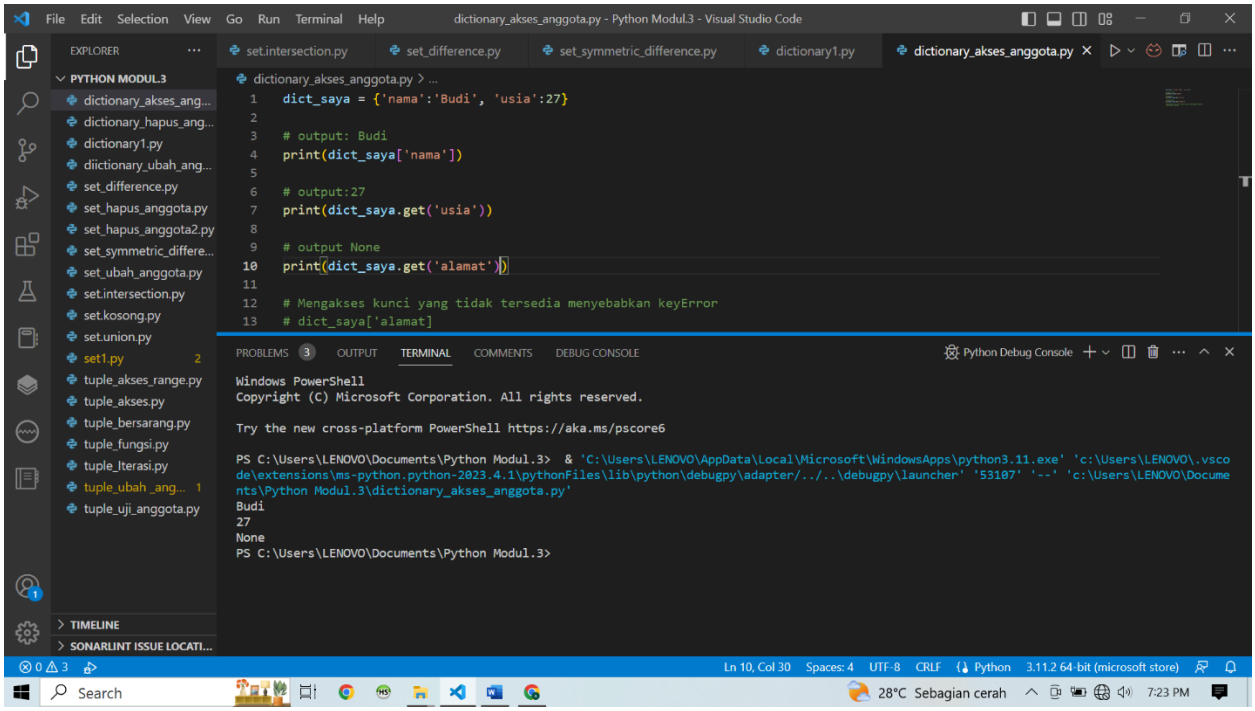


11. Dictionary

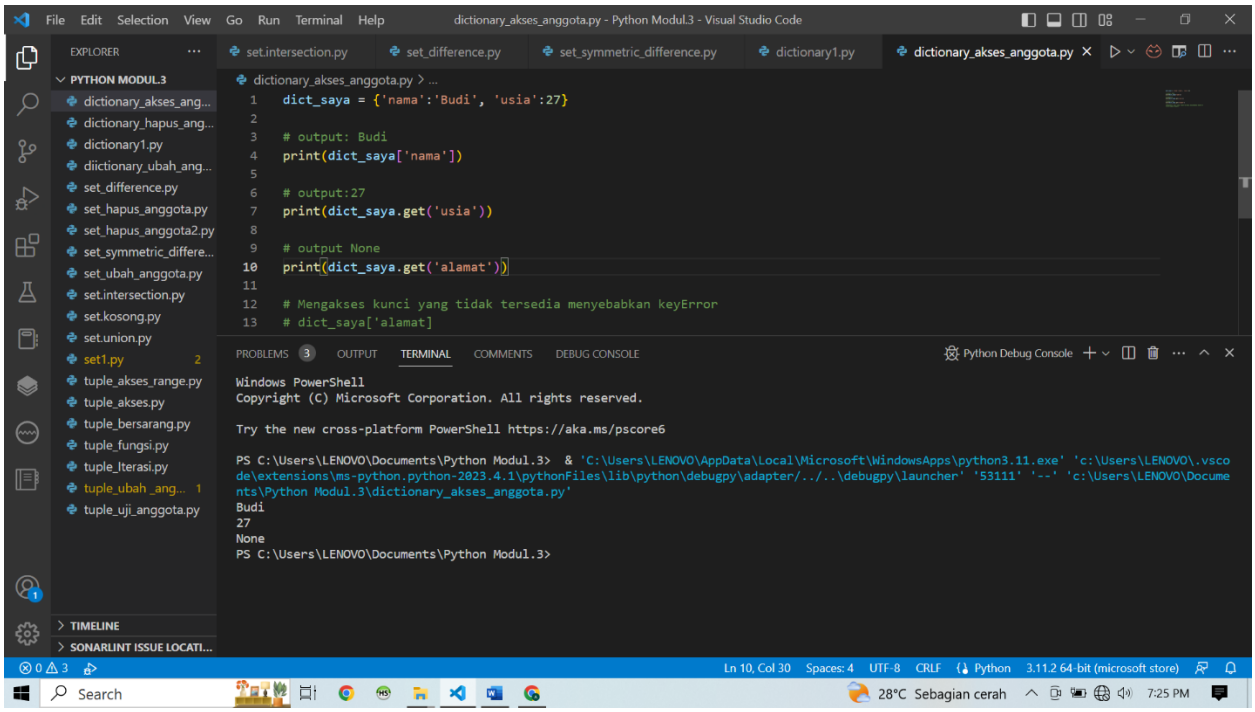
a. Membuat Dictionary



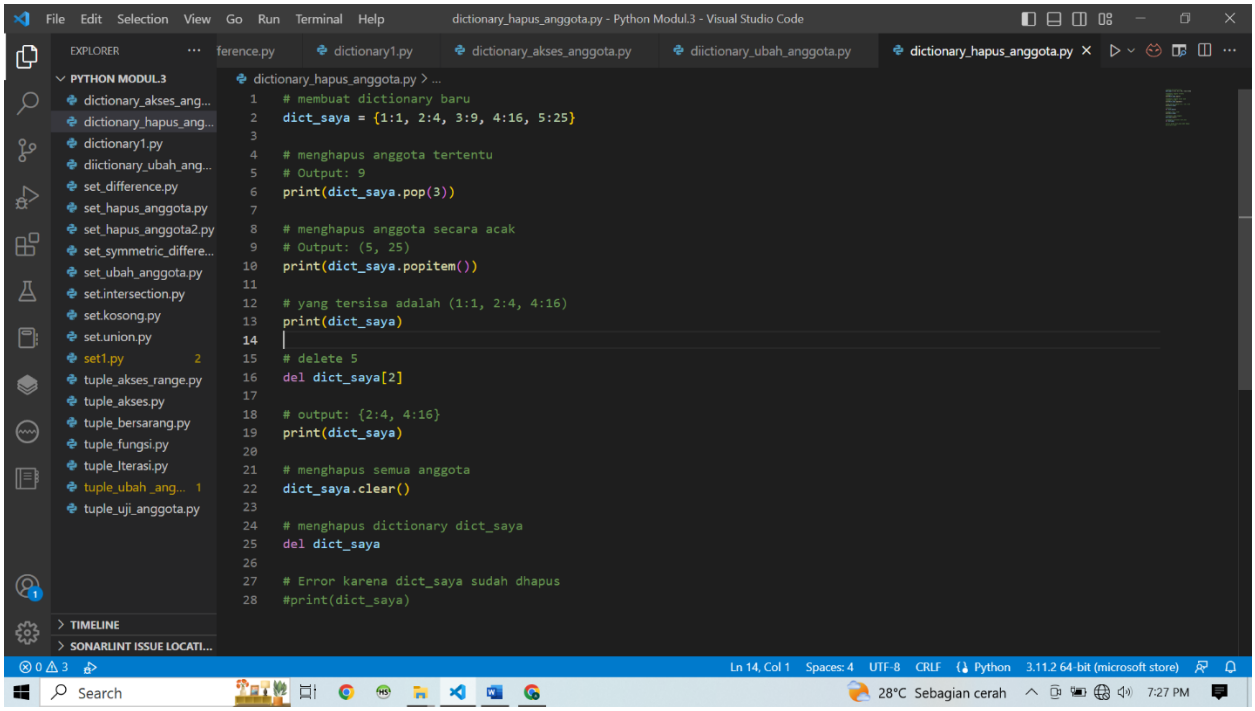
b. Mengakses Anggota Dictionary

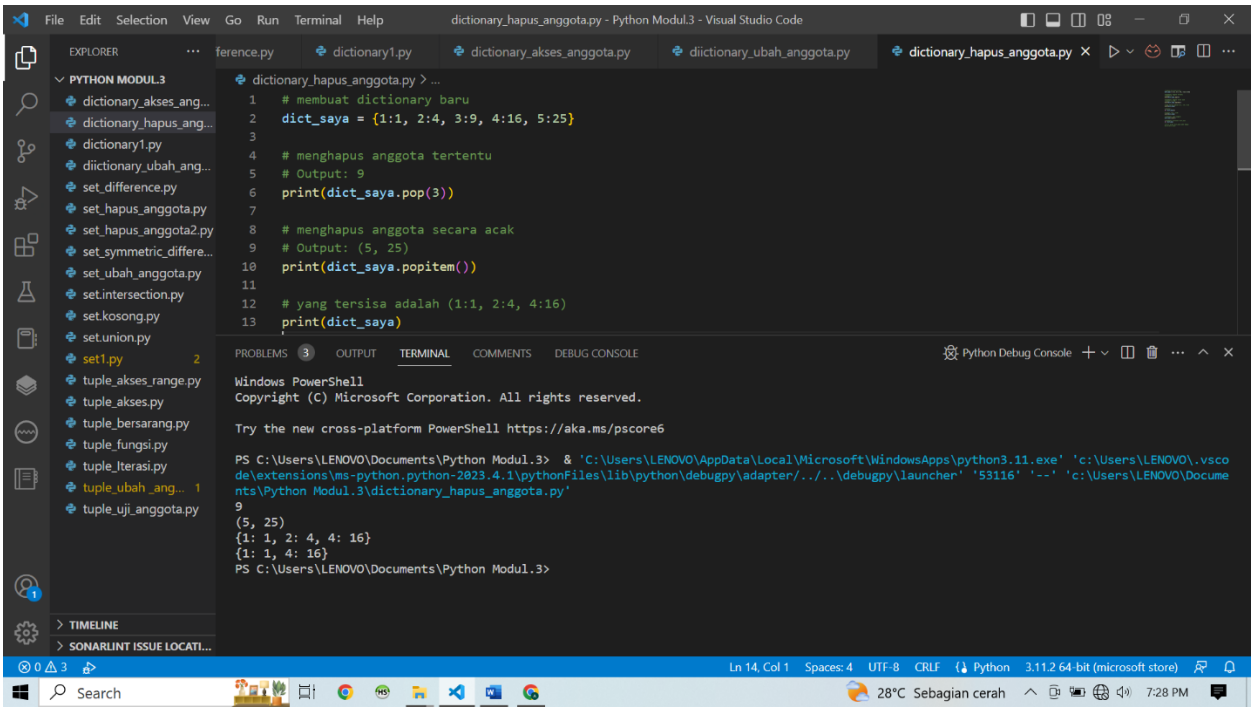


c. Mengubah Anggota Dictionary



d. Menghapus Anggota Dictionary




File Edit Selection View Go Run Terminal Help
dictionary_hapus_anggota.py - Python Modul.3 - Visual Studio Code
EXPLORER
PYTHON MODUL.3
dictionary_akses_ang...
dictionary_hapus_ang...
dictionary1.py
diictionary_ubah_ang...
set_difference.py
set_hapus_anggota.py
set_hapus_anggota2.py
set_symmetric_differe...
set_ubah_anggota.py
set.intersection.py
set.kosong.py
set.union.py
set1.py 2
tuple_akses_range.py
tuple_akses.py
tuple_bersarang.py
tuple_fungsi.py
tuple_Iterasi.py
tuple_ubah _ang... 1
tuple_uji_anggota.py
TIMELINE
SONARLINT ISSUE LOCATI...
ference.py
dictionary1.py
dictionary_akses_anggota.py
diictionary_ubah_anggota.py
dictionary_hapus_anggota.py
dictionary_hapus_anggota.py > ...
1 # membuat dictionary baru
2 dict_saya = {1:1, 2:4, 3:9, 4:16, 5:25}
3
4 # menghapus anggota tertentu
5 # Output: 9
6 print(dict_saya.pop(3))
7
8 # menghapus anggota secara acak
9 # Output: (5, 25)
10 print(dict_saya.popitem())
11
12 # yang tersisa adalah (1:1, 2:4, 4:16)
13 print(dict_saya)
PROBLEMS 3 OUTPUT TERMINAL COMMENTS DEBUG CONSOLE
Python Debug Console
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\LENOVO\Documents\Python Modul.3> & 'C:\Users\LENOVO\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '53116' '--' 'c:\Users\LENOVO\Documents\Python Modul.3\dictionary_hapus_anggota.py'
9
(5, 25)
{1: 1, 2: 4, 4: 16}
{1: 1, 4: 16}
PS C:\Users\LENOVO\Documents\Python Modul.3>
Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.2 64-bit (microsoft store)
Search
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7:28 PM