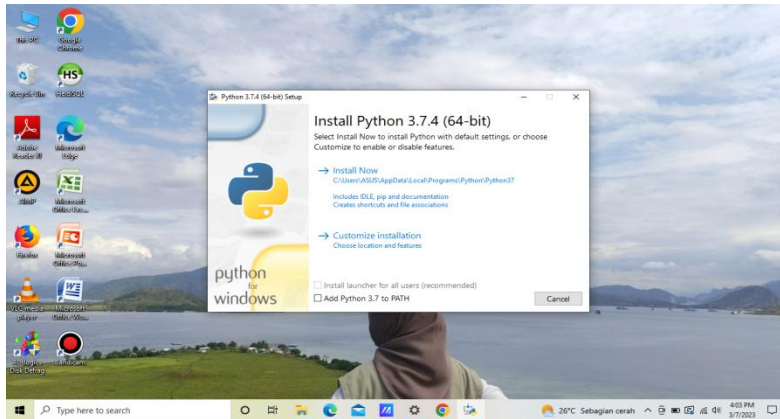


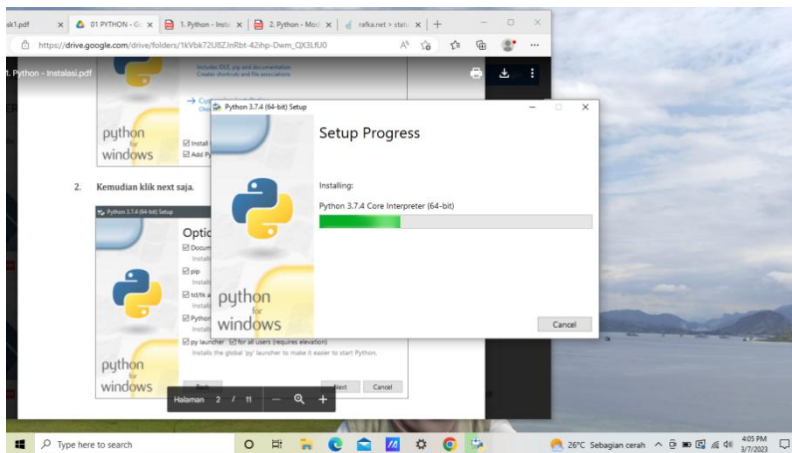
Nama : Nurmala
NIM : 20.01.013.069
Angkatan : 2020

PYTHON 1 – INSTALASI

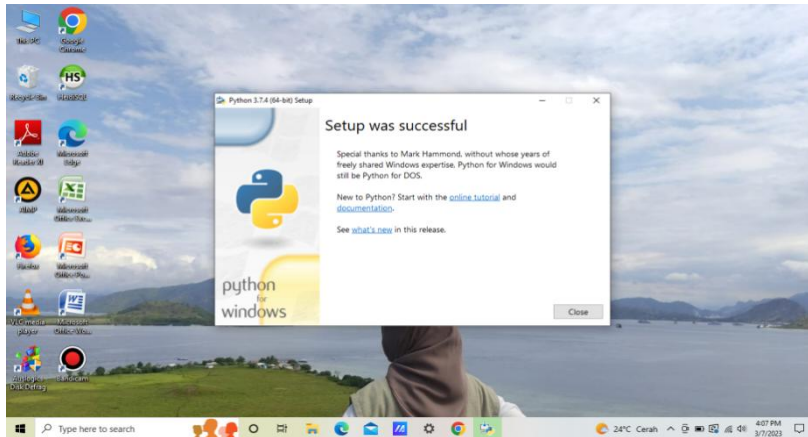
Pilih system python yang sesuai dengan system anda ,disini saya memakai python (32/64 bit)



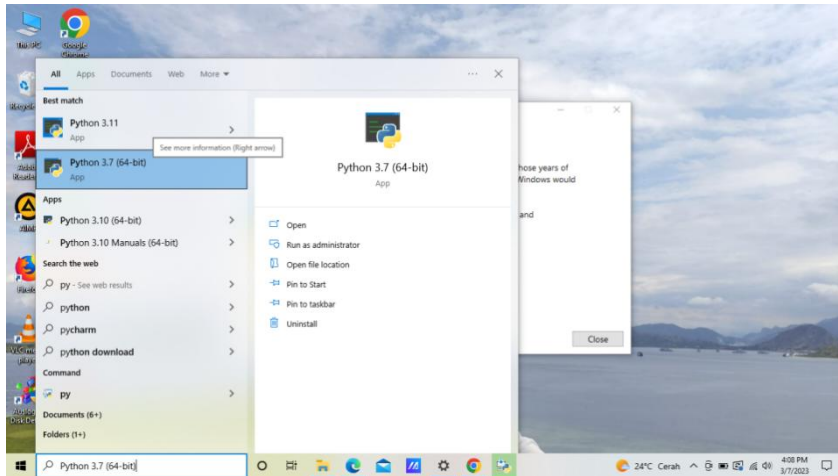
Tunggu hingga proses instalasi selesai.



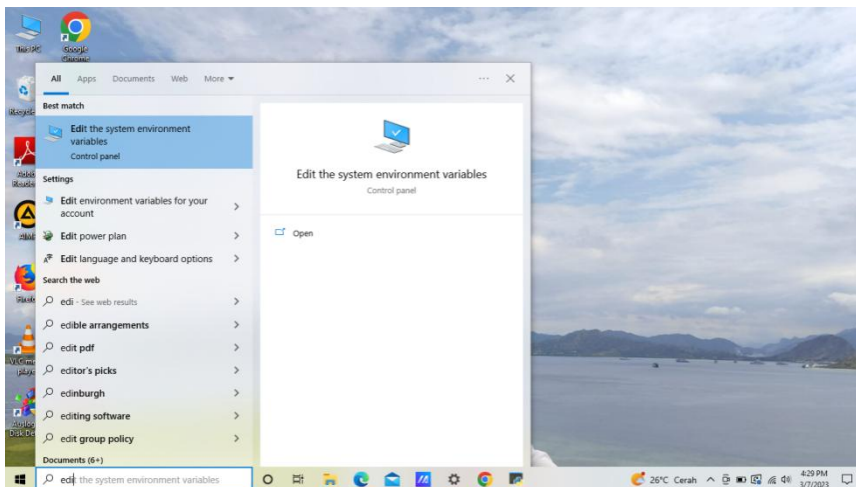
Setelah sukses klik ok.



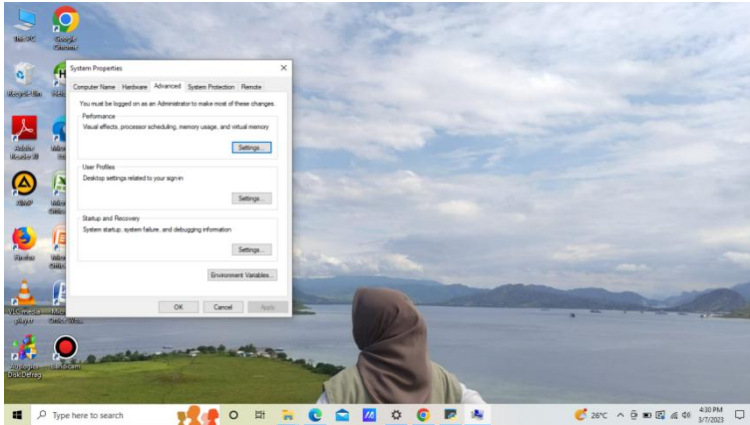
Kita bisa mengecek apakah python sudah terinstal atau belum.



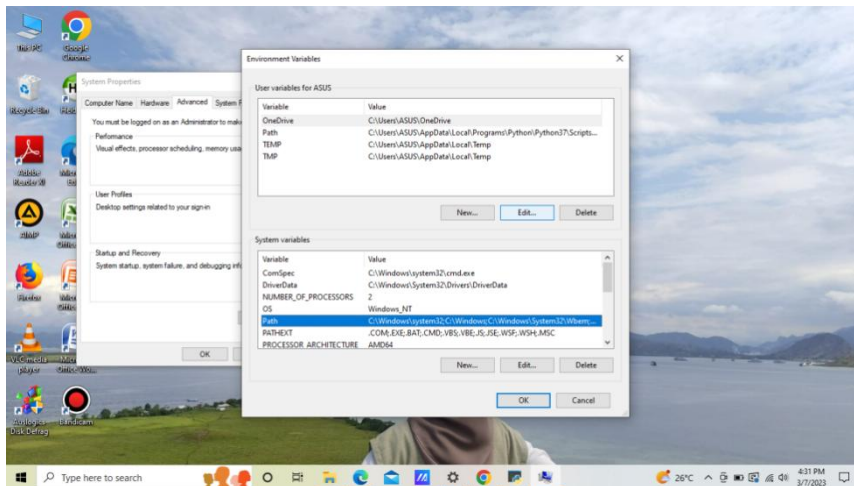
Selanjutnya buka sistem **enviroment variabel** untuk mensetting **path**.bisa di cek di menu searching.



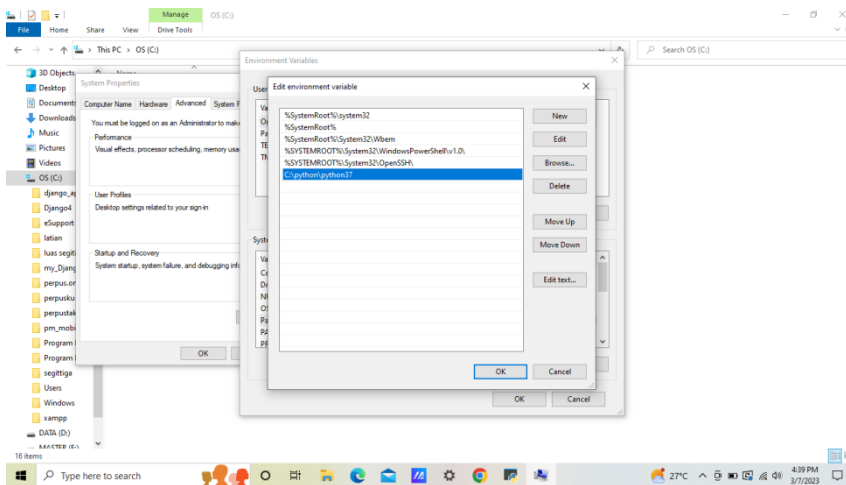
Setelah muncul kotak dialog klik **enviroment variabels** seperti gambar di bawah ini.



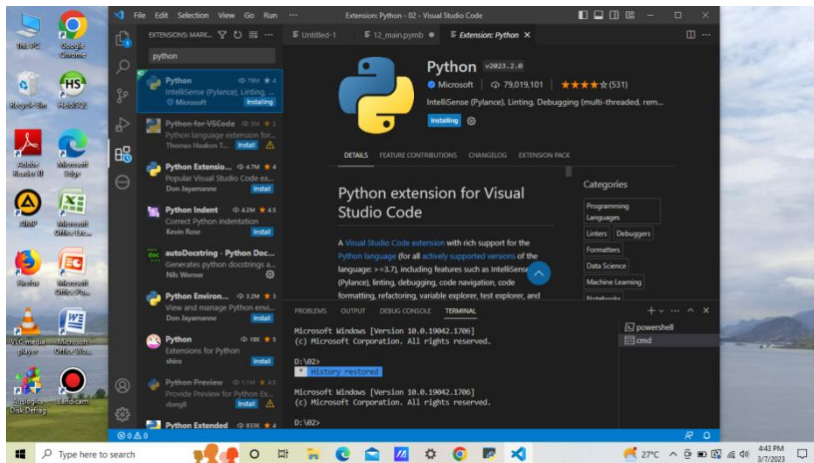
Pada bagian **system variables path** klik edit.



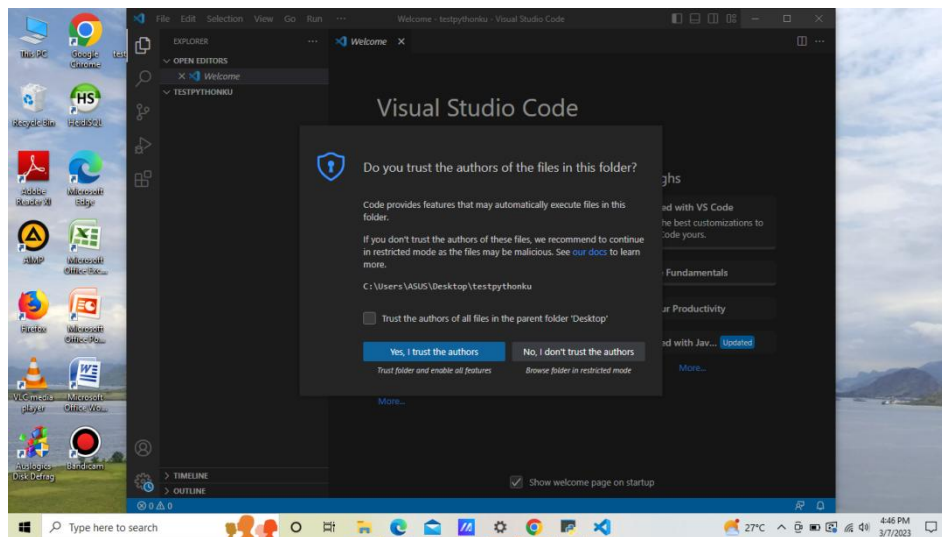
Klik tombol new lalu paste alamat directori yang telah di buat atau di copy



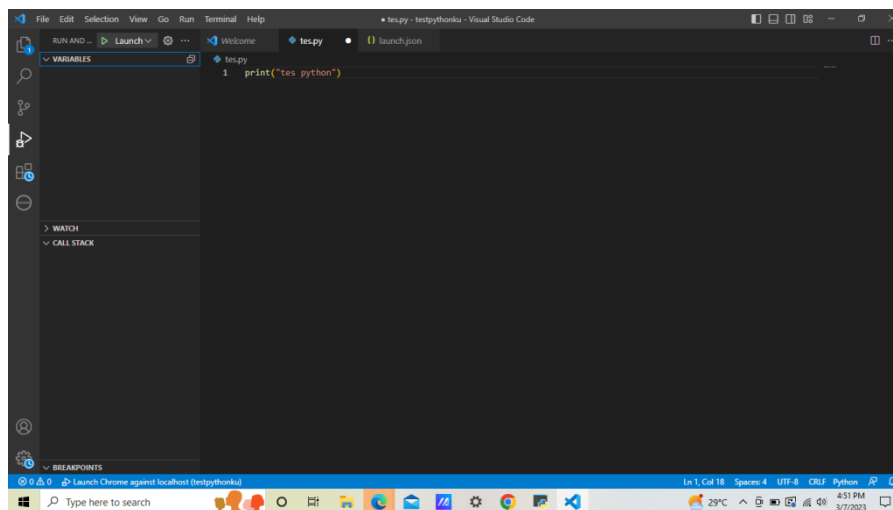
Lalu buka vs code pilih menu **extension** lalu searching python kemudian di install.



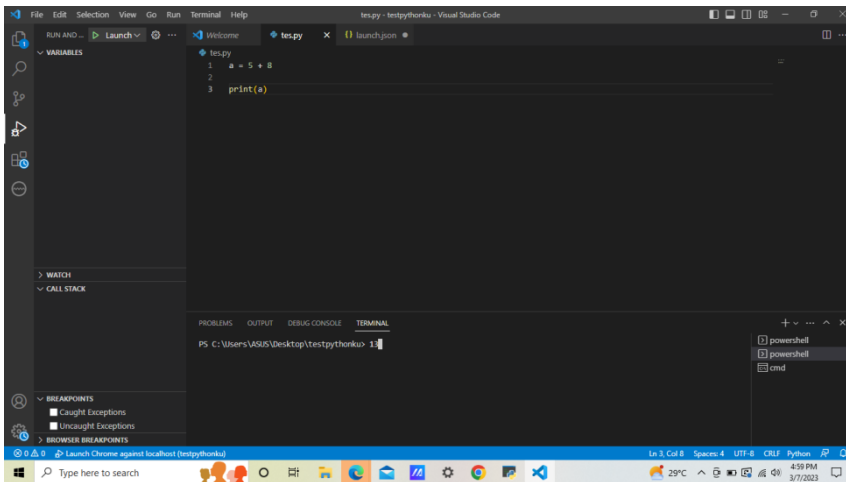
Lalu buat folder pada dekstop yang anda mau.



Pada new file lalu buat **folder tes.py**.

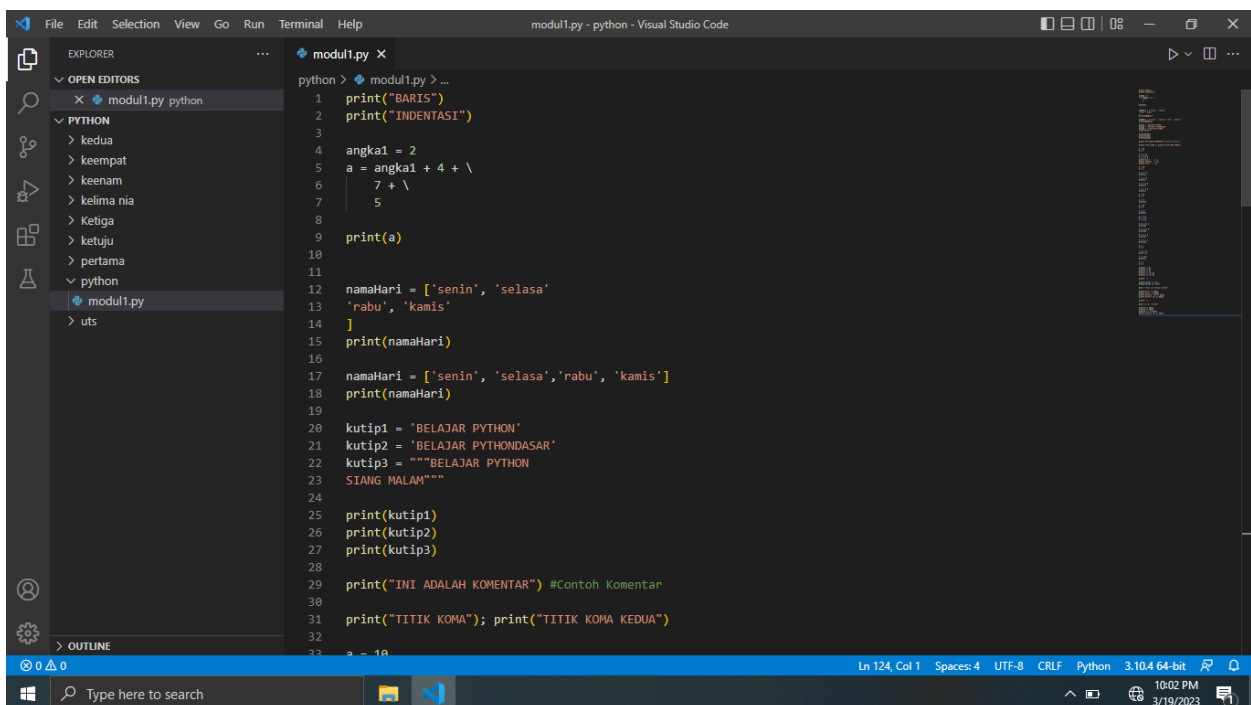


Lalu running project seperti pada gambar di bawah ini.



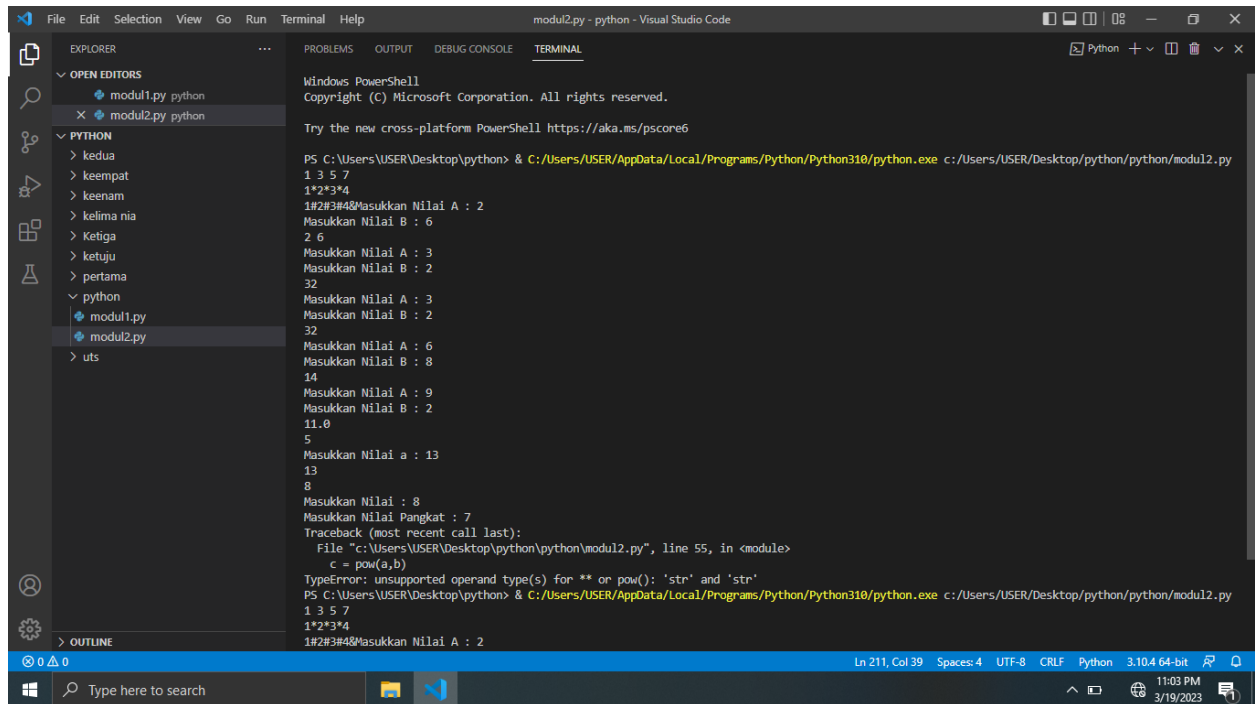
PYTHON 2 - MODUL 1

Codingan dari modul 1 ini menjelaskan tentang baris dan indentasi, komentar, operator dan aritmatika, operator logika dan lain-lain yang terdapat pada python2 - modul 1.



Output dari modul 1

Output dari modul 2



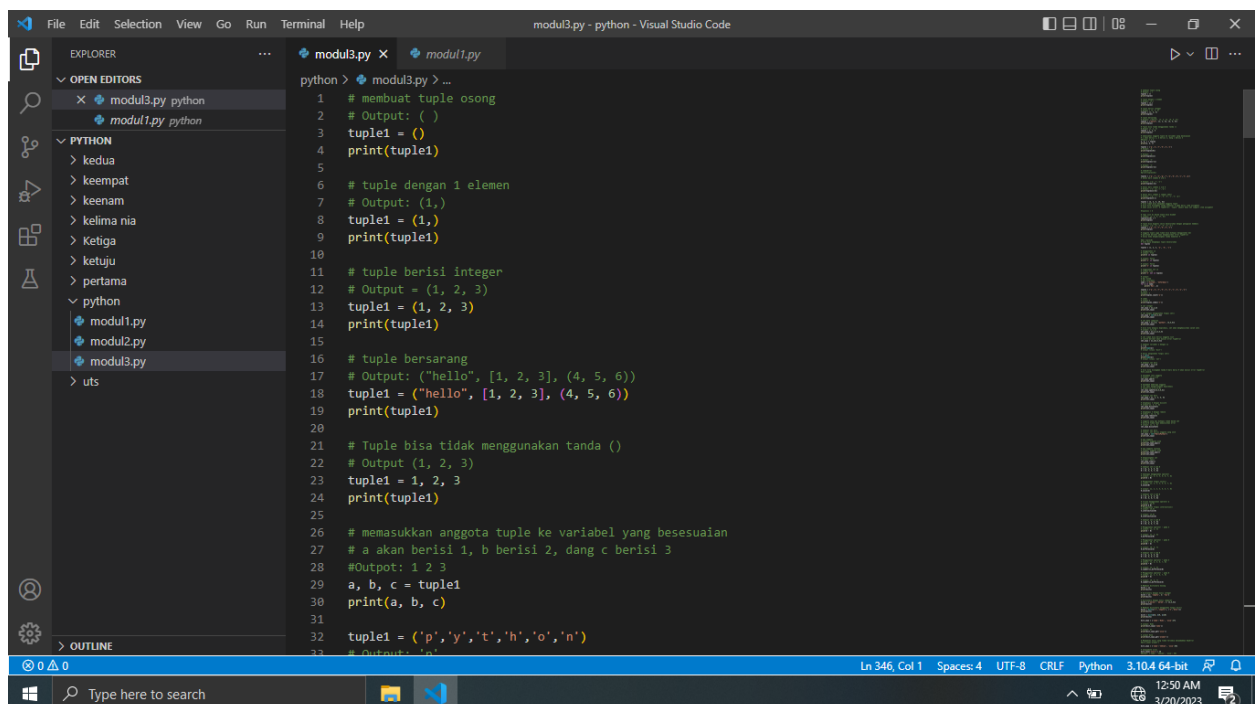
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\USER\Desktop\python> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/python/python/modul2.py
1 3 5 7
1*2*3*4
1#2#3#4#Masukkan Nilai A : 2
Masukkan Nilai B : 6
2 6
Masukkan Nilai A : 3
Masukkan Nilai B : 2
32
Masukkan Nilai A : 3
Masukkan Nilai B : 2
32
Masukkan Nilai A : 6
Masukkan Nilai B : 8
14
Masukkan Nilai A : 9
Masukkan Nilai B : 2
11.0
5
Masukkan Nilai a : 13
13
8
Masukkan Nilai : 8
Masukkan Nilai Pangkat : 7
Traceback (most recent call last):
  File "c:\Users\USER\Desktop\python\python\modul2.py", line 55, in <module>
    c = pow(a,b)
TypeError: unsupported operand type(s) for ** or pow(): 'str' and 'str'
PS C:\Users\USER\Desktop\python> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/python/python/modul2.py
1 3 5 7
1*2*3*4
1#2#3#4#Masukkan Nilai A : 2
```

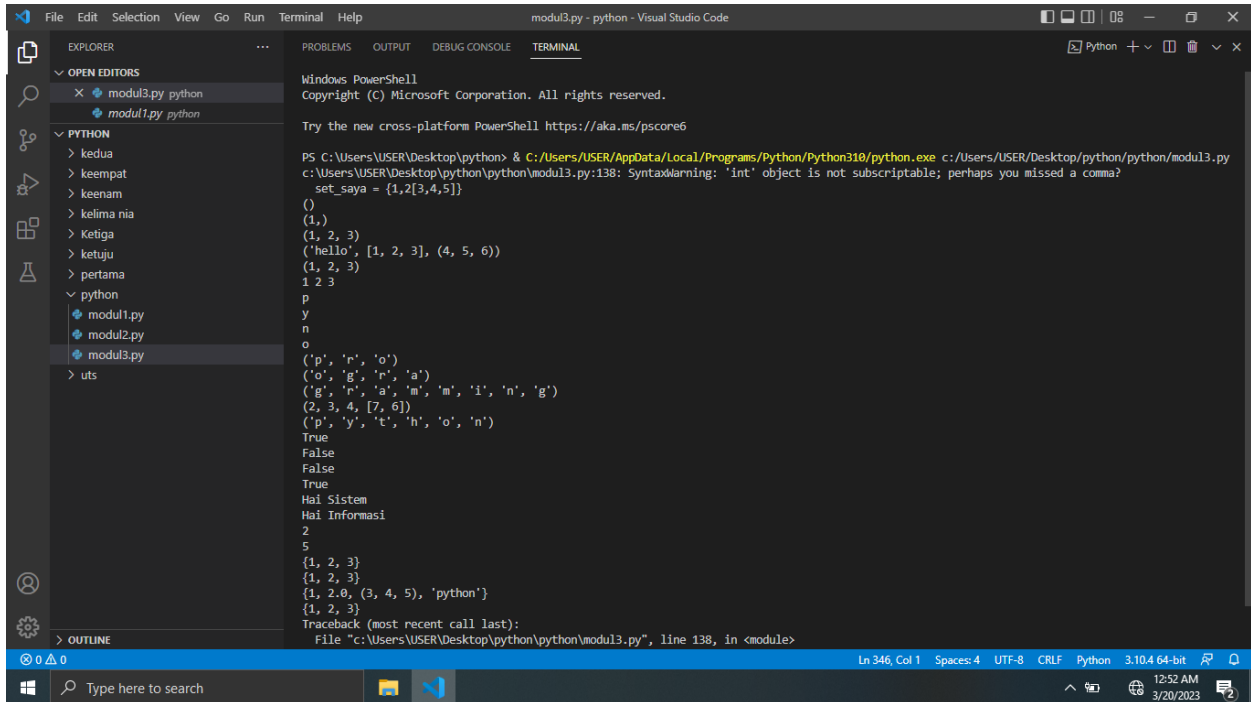
PYTHON 4 - MODUL 3

Codingan dari modul 1 ini menjelaskan tentang membuat tuple, mengakses tuple, mengakses tuple dengan range, mengubah anggota tuple, iterasi pada tuple, fungsi bawaan tuple, membuat set, set kosong dan lain-lain yang ada dalam python 4 - modul 3



```
python > modul3.py > ...
1 # membuat tuple kosong
2 # Output: ( )
3 tuple1 = ()
4 print(tuple1)
5
6 # tuple dengan 1 elemen
7 # Output: (1,)
8 tuple1 = (1,)
9 print(tuple1)
10
11 # tuple berisi integer
12 # Output = (1, 2, 3)
13 tuple1 = (1, 2, 3)
14 print(tuple1)
15
16 # tuple bersarang
17 # Output: ("hello", [1, 2, 3], (4, 5, 6))
18 tuple1 = ("hello", [1, 2, 3], (4, 5, 6))
19 print(tuple1)
20
21 # Tuple bisa tidak menggunakan tanda ( )
22 # Output (1, 2, 3)
23 tuple1 = 1, 2, 3
24 print(tuple1)
25
26 # memasukkan anggota tuple ke variabel yang besesuaian
27 # a akan berisi 1, b berisi 2, dang c berisi 3
28 #Output: 1 2 3
29 a, b, c = tuple1
30 print(a, b, c)
31
32 tuple1 = ('p','y','t','h','o','n')
33 # Output: 'p' 'y' 't' 'h' 'o' 'n'
```

Output dari modul 3

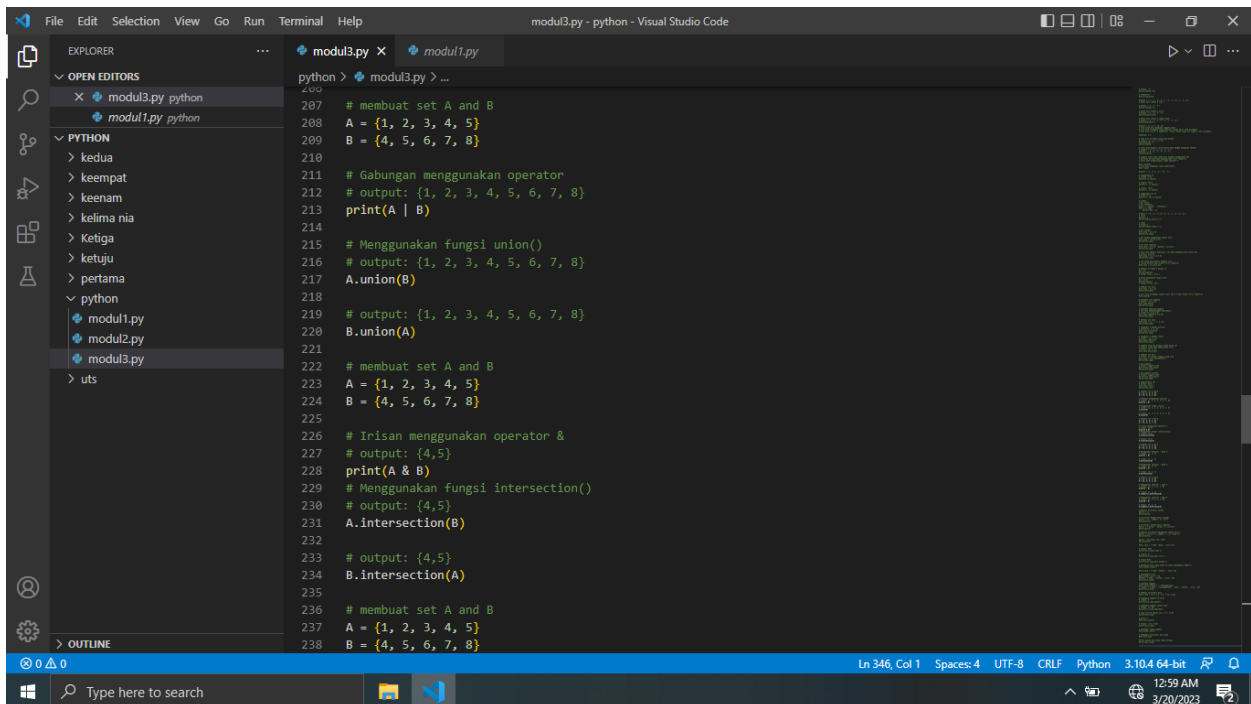


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\USER\Desktop\python> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/python/python/modul3.py
c:\Users\USER\Desktop\python\python\modul3.py:138: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a comma?
  set_saya = {1,2[3,4,5]}
()
(1,)
(1, 2, 3)
('hello', [1, 2, 3], (4, 5, 6))
(1, 2, 3)
1 2 3
p
y
n
o
('p', 'r', 'o')
('o', 'g', 'r', 'a')
('g', 'r', 'a', 'm', 'm', 'i', 'n', 'g')
(2, 3, 4, [7, 6])
('p', 'y', 't', 'h', 'o', 'n')
True
False
False
True
Hai Sistem
Hai Informasi
2
5
{1, 2, 3}
{1, 2, 3}
{1, 2, 0, (3, 4, 5), 'python'}
{1, 2, 3}
Traceback (most recent call last):
  File "c:\Users\USER\Desktop\python\python\modul3.py", line 138, in <module>
```

MODUL 3 - Tentang operasi gabungan dan irisan



```
python > modul3.py > ...
200
207 # membuat set A and B
208 A = {1, 2, 3, 4, 5}
209 B = {4, 5, 6, 7, 8}
210
211 # Gabungan menggunakan operator
212 # output: {1, 2, 3, 4, 5, 6, 7, 8}
213 print(A | B)
214
215 # Menggunakan fungsi union()
216 # output: {1, 2, 3, 4, 5, 6, 7, 8}
217 A.union(B)
218
219 # output: {1, 2, 3, 4, 5, 6, 7, 8}
220 B.union(A)
221
222 # membuat set A and B
223 A = {1, 2, 3, 4, 5}
224 B = {4, 5, 6, 7, 8}
225
226 # Irisan menggunakan operator &
227 # output: {4,5}
228 print(A & B)
229 # Menggunakan fungsi intersection()
230 # output: {4,5}
231 A.intersection(B)
232
233 # output: {4,5}
234 B.intersection(A)
235
236 # membuat set A and B
237 A = {1, 2, 3, 4, 5}
238 B = {4, 5, 6, 7, 8}
```



```
python > modul3.py > ...
236 # membuat set A and B
237 A = {1, 2, 3, 4, 5}
238 B = {4, 5, 6, 7, 8}
239
240 # Menggunakan operator - pada A
241 # output: {1, 2, 3}
242 print(A - B)
243
244 # output: {1, 2, 3}
245 A.difference(B)
246
247 # Menggunakan operator - pada B
248 # output: {8, 6, 7}
249 print(B - A)
250
251 # output: {8, 6, 7}
252 B.difference(A)
253
254 # membuat set A and B
255 A = {1, 2, 3, 4, 5}
256 B = {4, 5, 6, 7, 8}
257
258 # Menggunakan operator ^ pada A
259 # output: {1, 2, 3, 6, 7, 8}
260 print(A ^ B)
261
262 # output: {1, 2, 3}
263 A.symmetric_difference(B)
264
265 # Menggunakan operator - pada B
266 # output: {1, 2, 3, 6, 7, 8}
267 print(B ^ A)
268
```

Output dari modul 3 tentang operasi gabungan dan irisan

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

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

PS C:\Users\USER\Desktop\python> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/python/python/modul3.py
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3}
{8, 6, 7}
{1, 2, 3, 6, 7, 8}
{1, 2, 3, 6, 7, 8}
PS C:\Users\USER\Desktop\python>
```