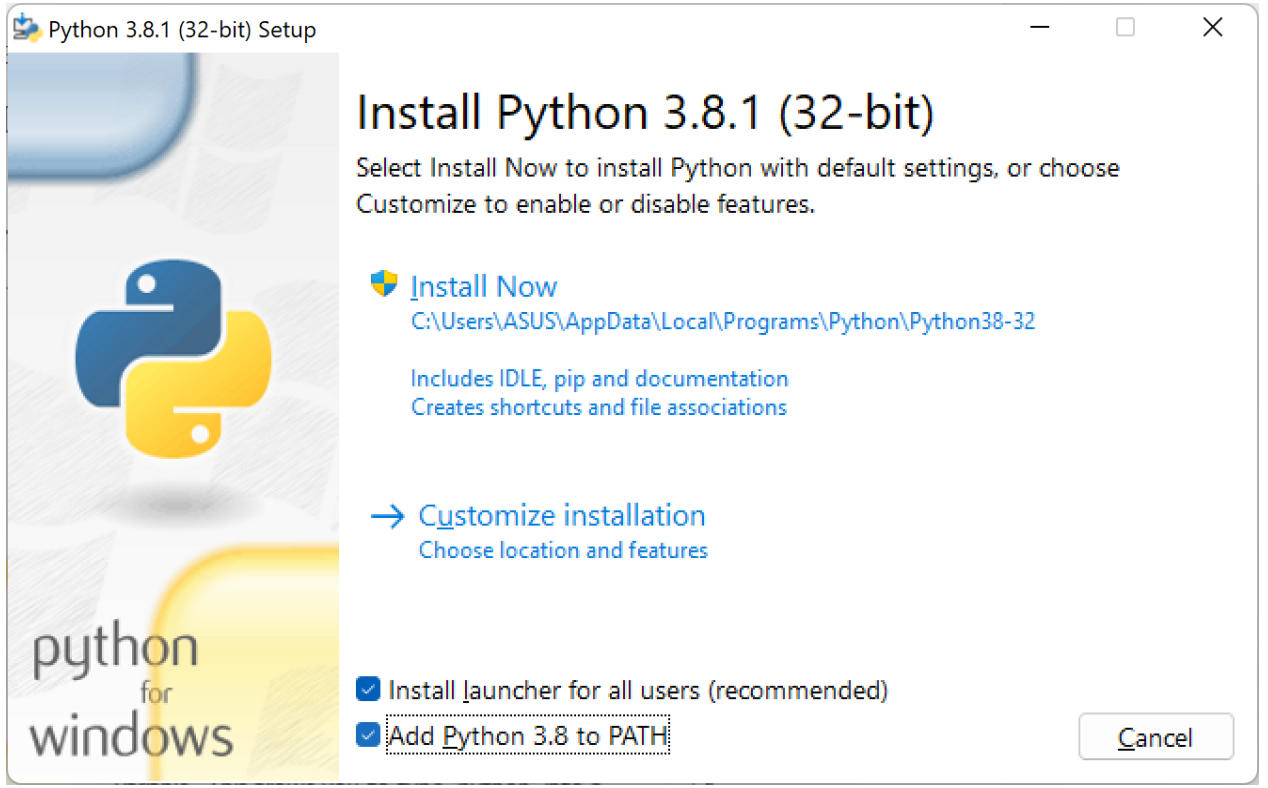
DASAR PEMROGRAMAN PYTHON PART 1

MIKE YULIANA

OUTLINE

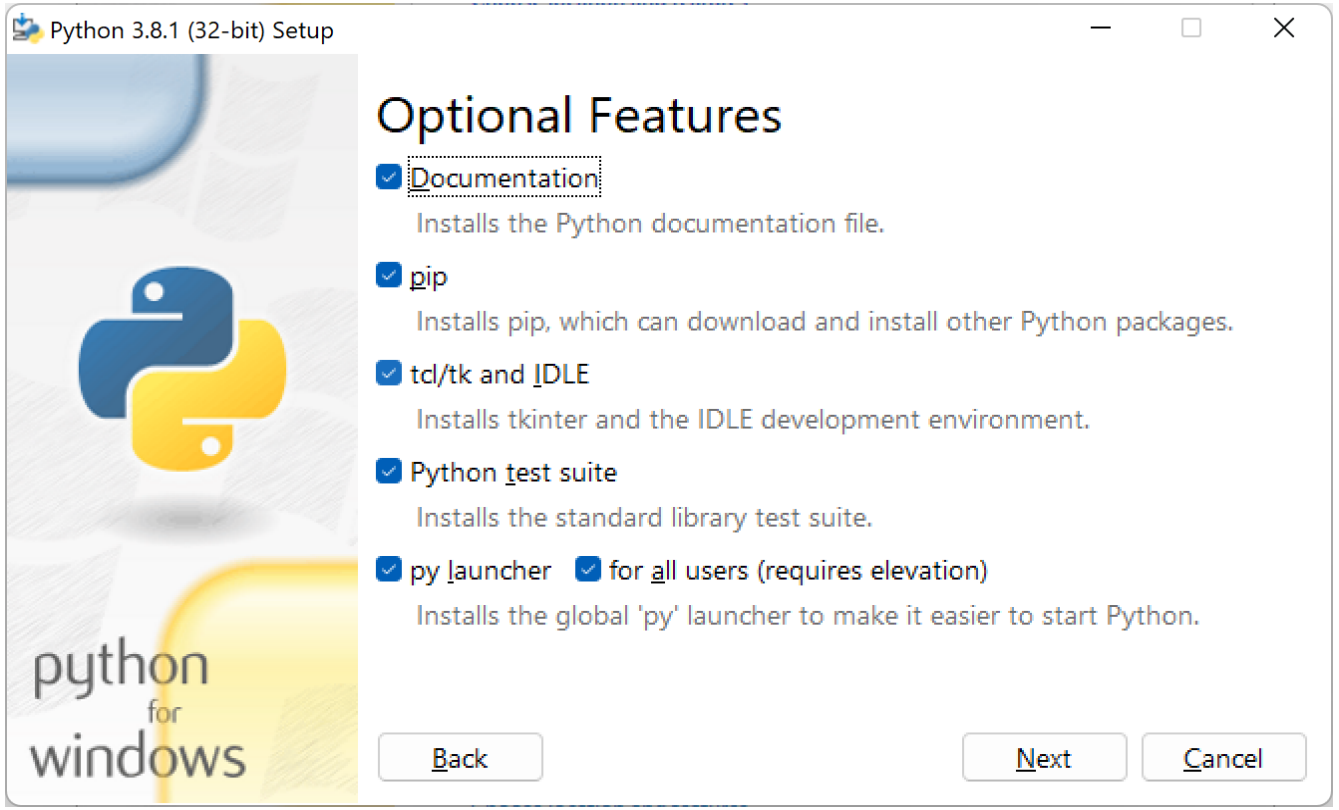
1. Instalasi Python
2. Dasar Pemrograman Python part 1
3. Dasar Pemrograman Python part 2
4. IPv4 => mencetak nama komputer, alamat IPv4, merubah alamat Ip ke format lain, serta nama service,port, protocol, yang digunakan pada suatu computer
5. Aplikasi berbasis TCP dan UDP
6. Multiplexing Socket I/O
7. TCP dan UDP Berbasis Multi threaded process
8. Multiplexing Socket I/O : Select

Instalasi Python

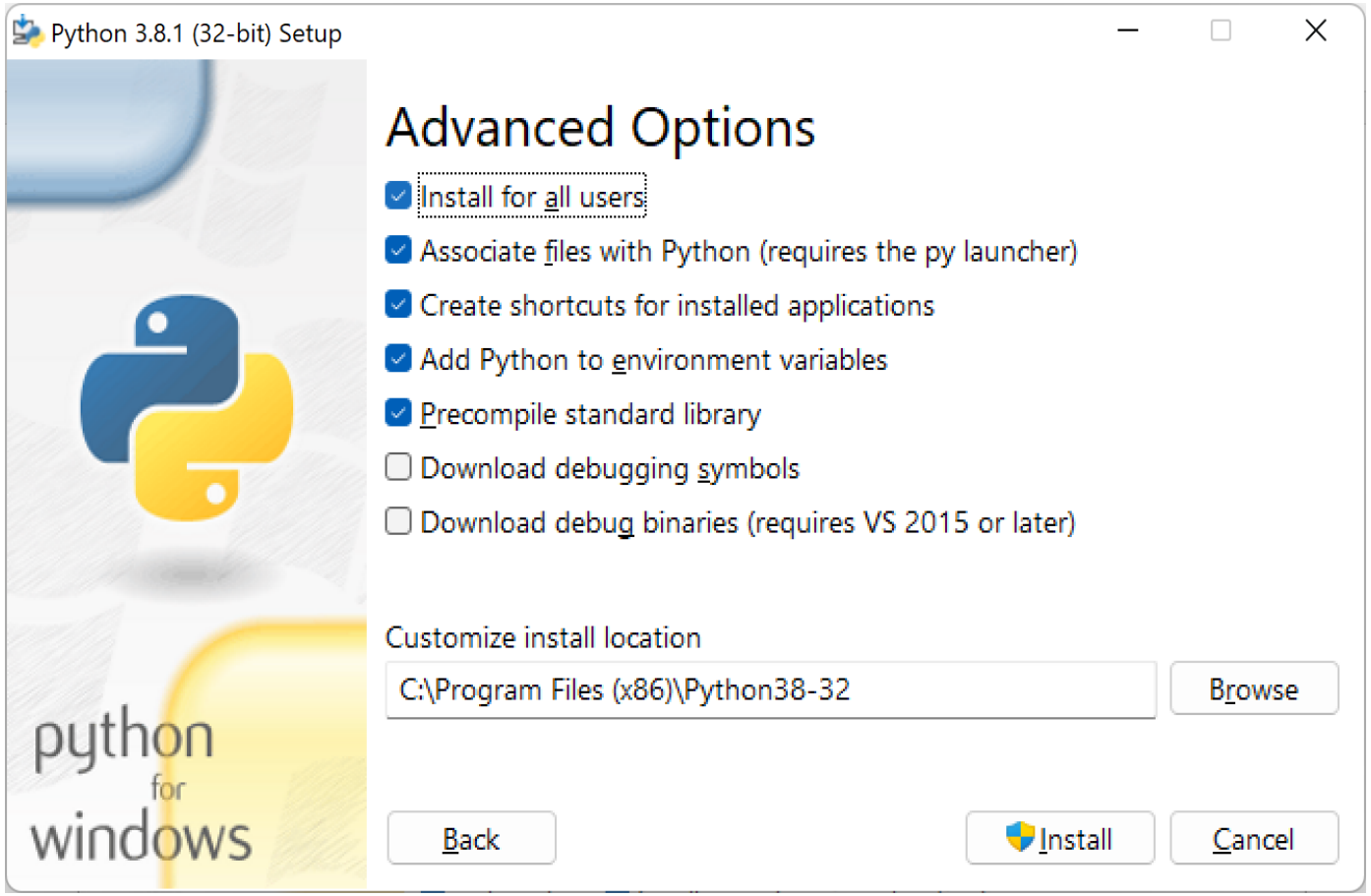


Pilih customize installation

Instalasi Python

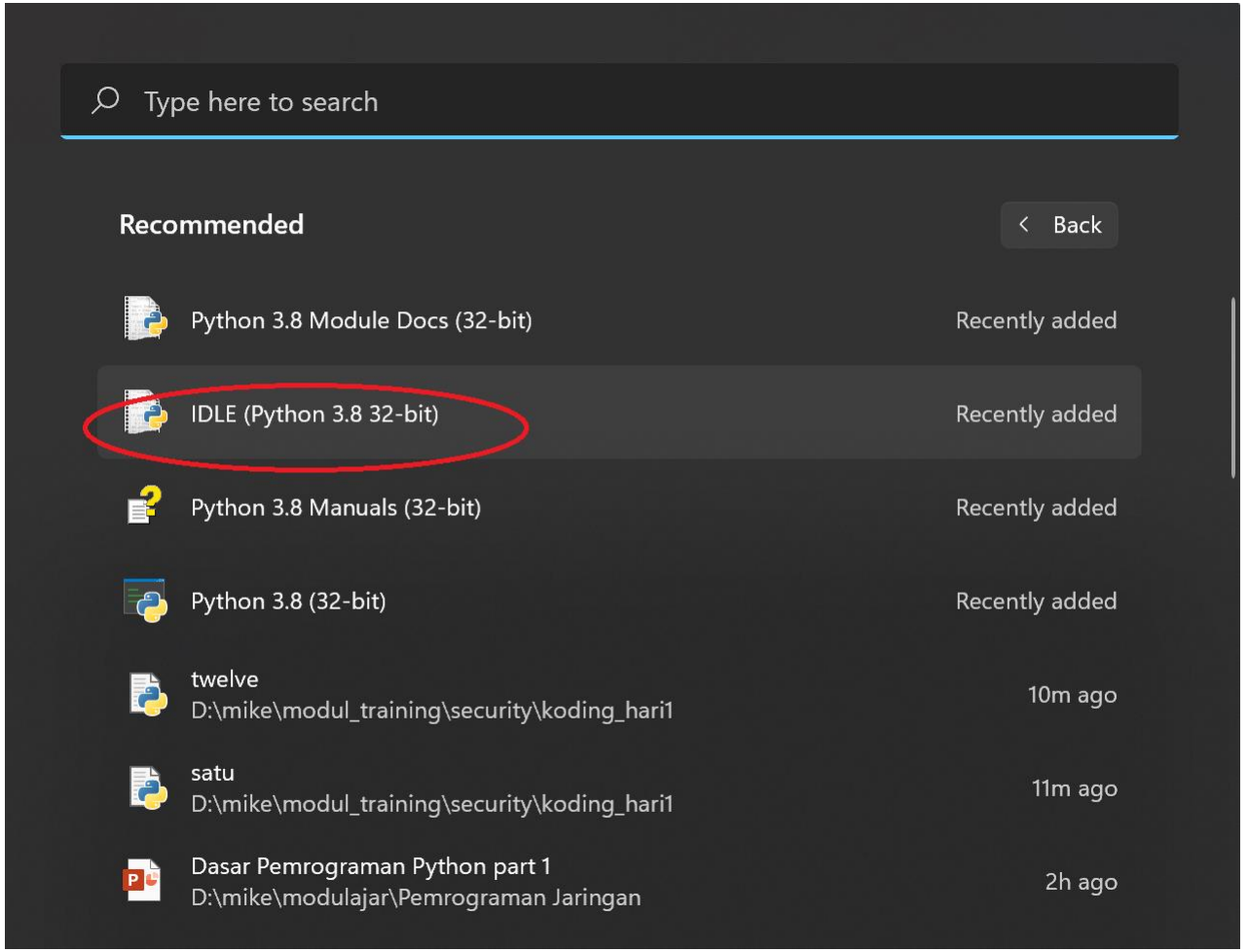


Instalasi Python



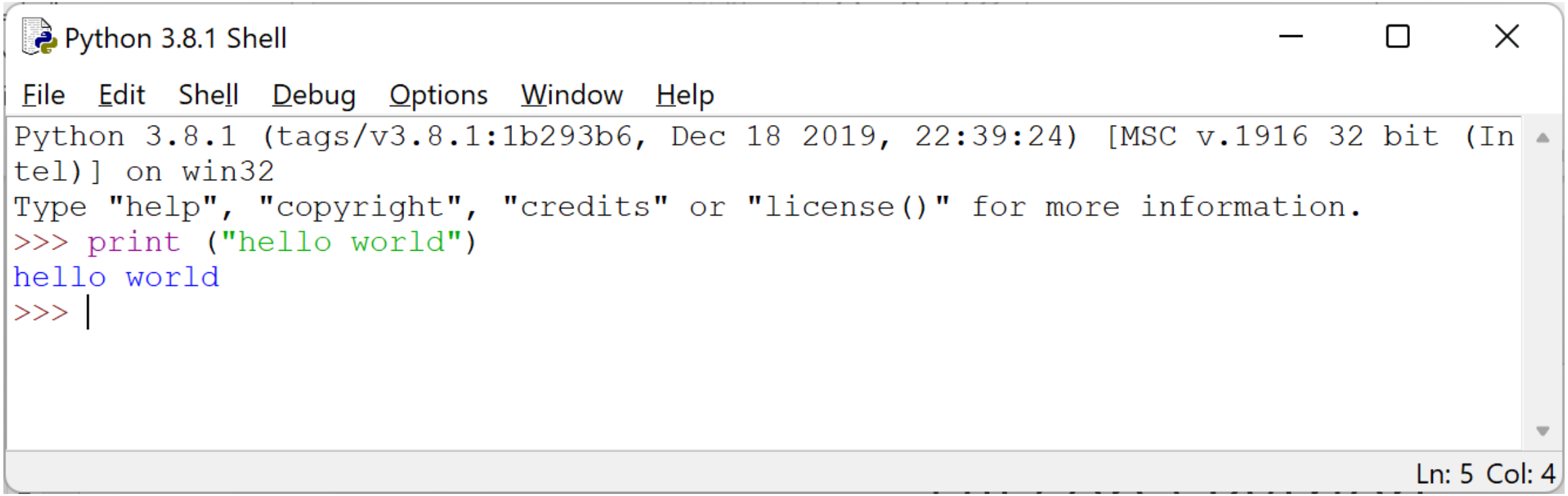
Klik install

Uji coba Python

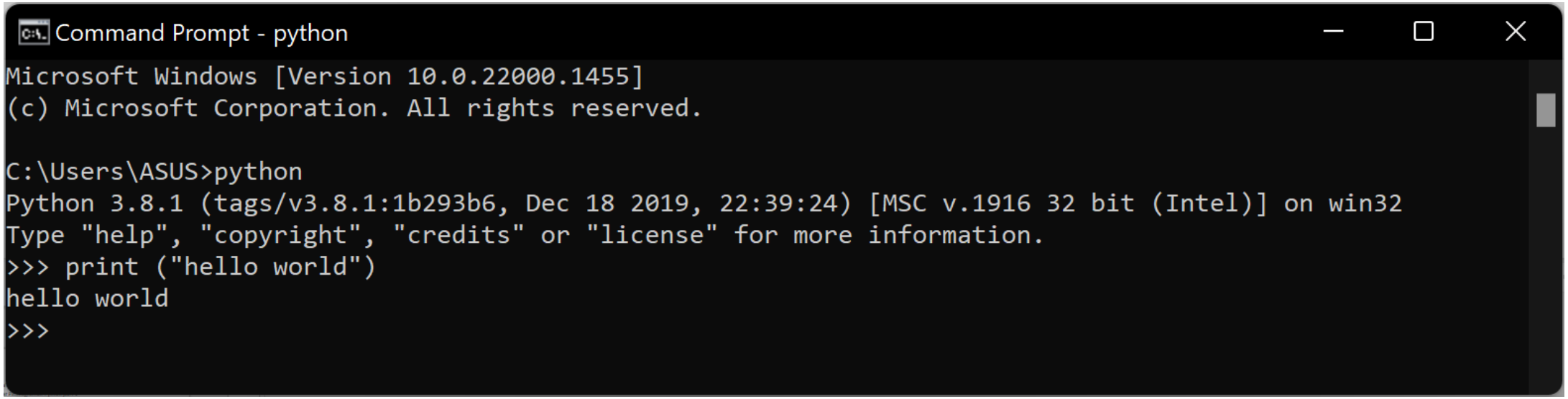


Di windows, cari python shell

Uji Coba Python

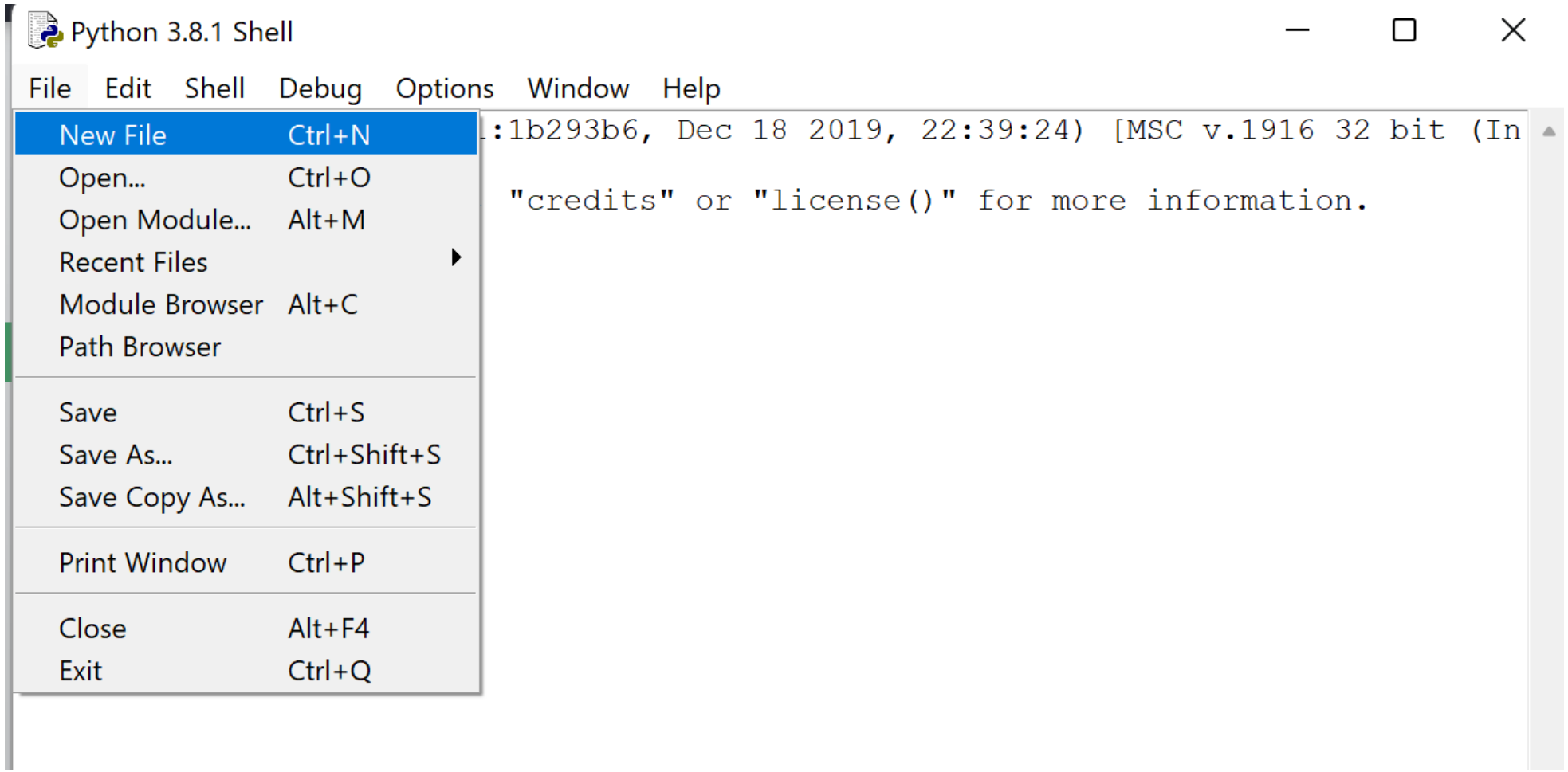


Uji Coba Python

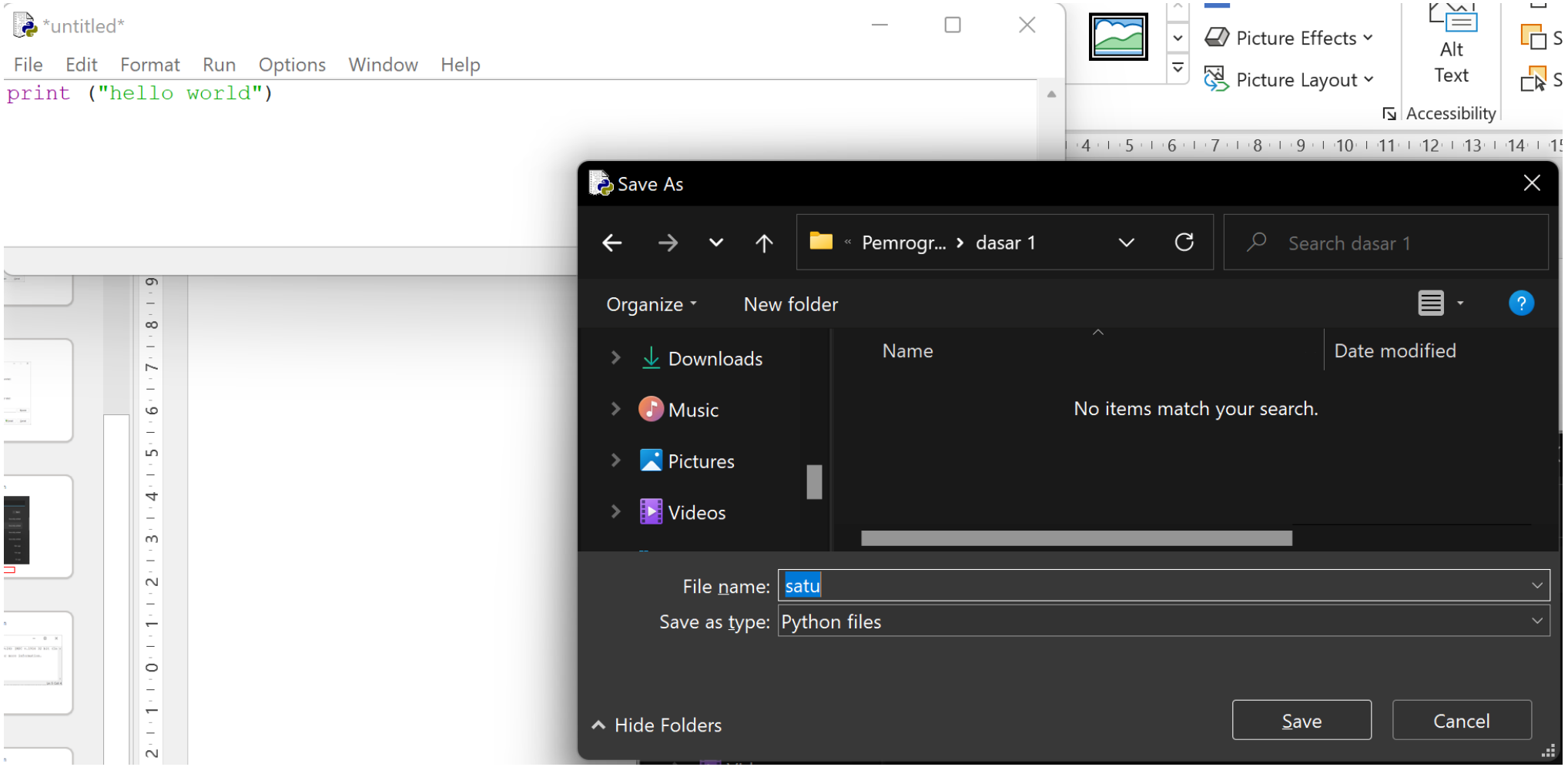


Di windows, cari cmd

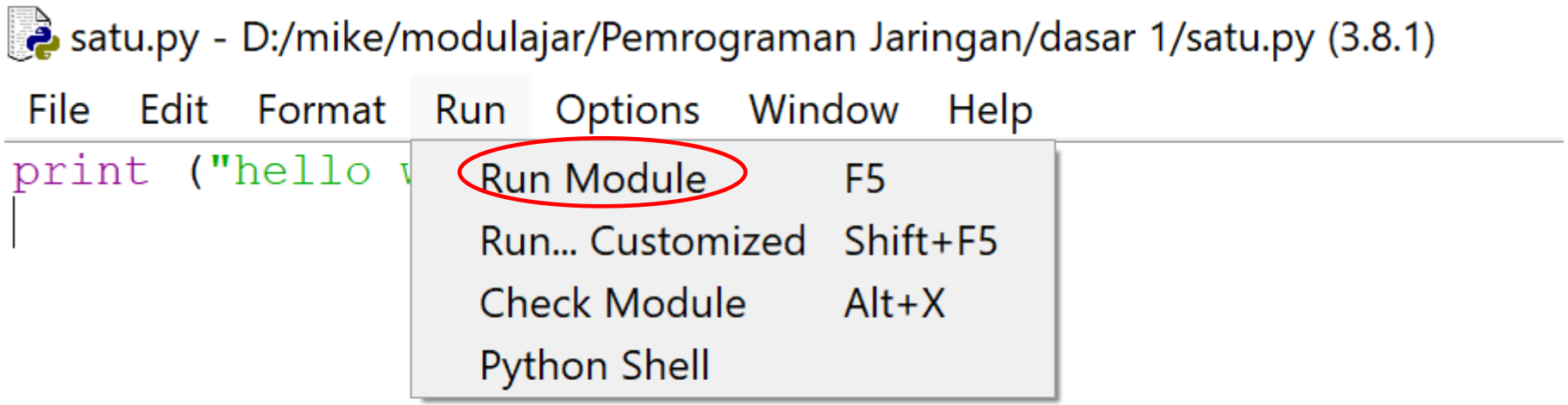
Dasar Pemrograman Python



Dasar Pemrograman Python



Dasar Pemrograman Python



Variabel

```
x = 5
y = "John"
print(x)
print(y)
```

Tampilan :

```
5
John
```

```
x = 5
y = "John"
print(x)
print(y)
```

Tampilan :

```
Sally
```

```
x = str(3)    # x will be '3'
y = int(3)    # y will be 3
z = float(3)  # z will be 3.0
print (z)
```

Tampilan :

```
3.0
```

```
a = 4
A = "Sally"
#A will not overwrite a
print(a)
```

Tampilan :

```
4
```

If Else

- Equals: `a == b`
- Not Equals: `a != b`
- Less than: `a < b`
- Less than or equal to: `a <= b`
- Greater than: `a > b`
- Greater than or equal to: `a >= b`

If Else

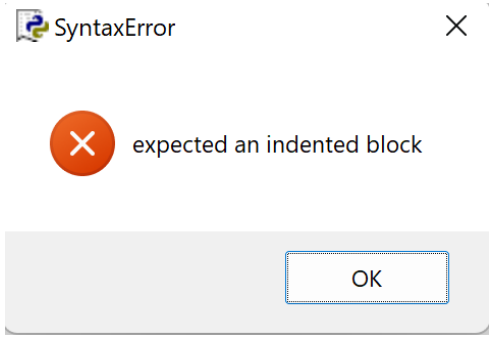
```
a = 33
b = 200
if b > a:
  print("b is greater than a")
```

Tampilan :

```
b is greater than a
```

```
a = 33
b = 200
if b > a:
print("b is greater than a") # you will get an error
```

Tampilan :




```
a = 33
b = 33
if b > a:
  print("b is greater than a")
elif a == b:
  print("a and b are equal")
```

If Else

```
a = 33
b = 33
if b > a:
  print("b is greater than a")
elif a == b:
  print("a and b are equal")
```

Tampilan :

```
a and b are equal
```

```
a = 200
b = 33
if b > a:
  print("b is greater than a")
elif a == b:
  print("a and b are equal")
else:
  print("a is greater than b")
```

Tampilan :

```
a is greater than b
```

If Else

```
a = 200
b = 33
if b > a:
  print("b is greater than a")
else:
  print("b is not greater than a")
```

```
x = 41

if x > 10:
  print("Above ten,")
  if x > 20:
    print("and also above 20!")
  else:
    print("but not above 20.")
```

```
a = 33
b = 200
if not a > b:
  print("a is NOT greater than b")
```

If Else

```
a = 33
b = 200
if not a > b:
  print("a is NOT greater than b")
```

```
a = 200
b = 33
c = 500
if a > b or a > c:
  print("At least one of the conditions is
True")
```

```
a = 200
b = 33
c = 500
if a > b and c > a:
  print("Both conditions are True")
```

While

```
i = 1
while i < 6:
  print(i)
  i += 1
```

```
1
2
3
4
5
```

```
i = 1
while i < 6:
  print(i)
  if i == 3:
    break
  i += 1
```

```
1
2
3
```

```
i = 0
while i < 6:
  i += 1
  if i == 3:
    continue
  print(i)
```

```
1
2
4
5
6
```

```
i = 1
while i < 6:
  print(i)
  i += 1
else:
  print("i is no longer less than 6")
```

For

```
for x in range(2, 30, 3):
  print(x)
```

```
2
5
8
11
14
17
20
23
26
29
```

```
for x in range(6):
  if x == 3: break
  print(x)
else:
  print("Finally finished!")
```

```
0
1
2
```

```
for x in range(6):
  print(x)
```

```
0
1
2
3
4
5
```

Tugas

Buatlah program dalam struktur control If untuk menyeleksi kriteria nilai jika diketahui informasi sebagai berikut!

Nilai>=88 kriteria A

77<=Nilai<88 kriteria B

60<=Nilai<77 kriteria C

45<=Nilai<60 kriteria D

Nilai<45 kriteria E

Nilai Angka	Nilai Huruf	Bobot	Kategori
81 – 100	A	4	Istimewa
71 – 80	AB	3.5	Sangat baik
66 – 70	B	3	Baik
61 – 65	BC	2.5	Cukup baik
56 – 60	C	2	Cukup
41 – 55	D	1	Kurang
0 – 40	E	0	Sangat kurang

Tugas

```
# Nama Toko
print("DQ Mart")

# kode untuk menjalankan program
namaitem = str(input("Masukkan nama  item : "))
hargaitem = int(input("Masukkan harga item : "))
jumlah = int(input("Masukkan jumlah item yang dibeli : "))
bayar = int(input("Masukkan jumlah uang yang dibayar : "))

Total= (hargaitem*jumlah-bayar)

print("Total kembalian: ","Rp.",Total)
```

Tugas

```
Program volume bangun ruang

1 = Balok
2 = Kubus
3 = Kerucut
4 = Tabung
5 = Bola

Pilih Jenis Bangun Ruang: 1
Panjang Bangun ruang  : 10
Lebar Bangun ruang    : 20
Tinggi Bangun ruang   : 30
Volume Balok = 6000
```