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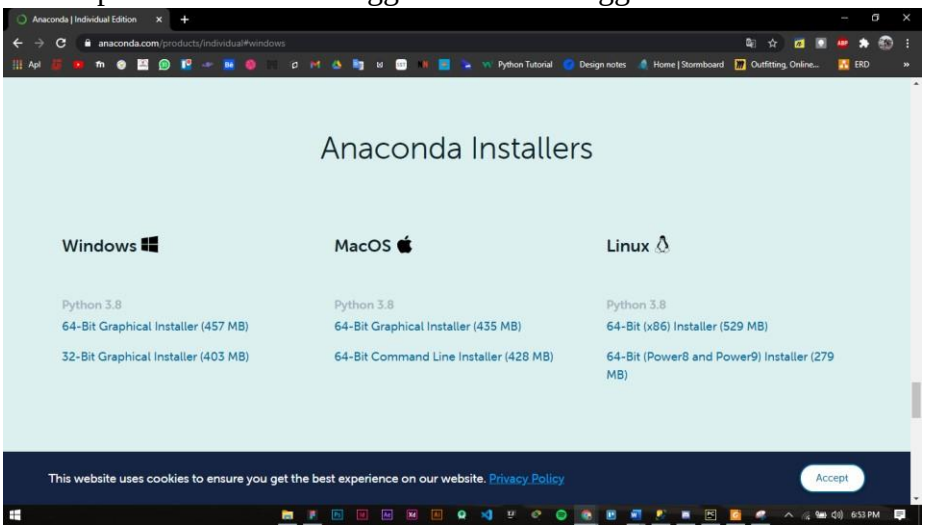
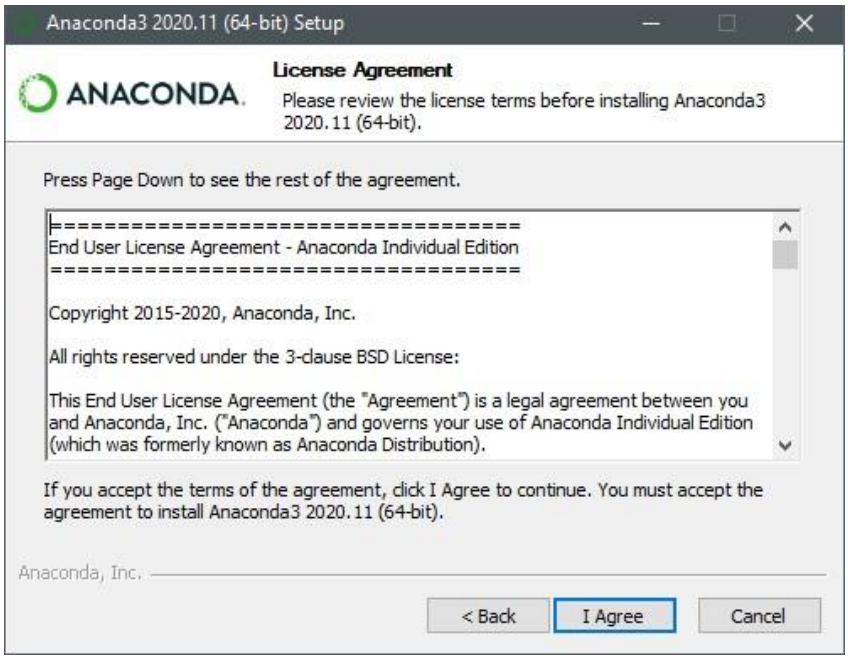
# MODUL 1
# VARIABEL, TIPE DATA DAN OPERATOR

1. Instalasi Anaconda
    a. Buka website Anaconda https://www.anaconda.com/products/individual#windows . Pilih sesusai dengan sistem operasi PC kamu. Tunggu download hingga selesai.

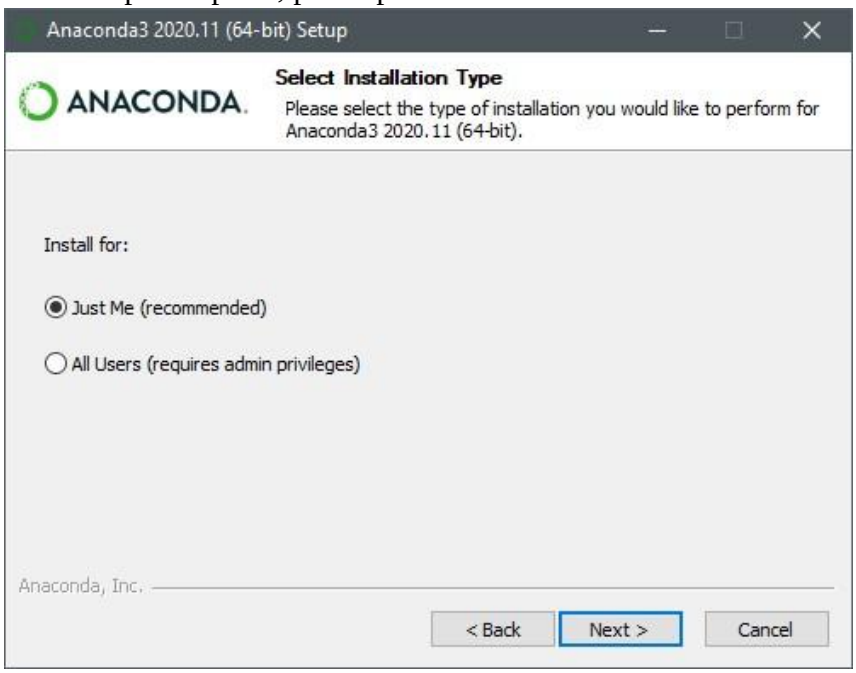



    b. Buka installer Anaconda yang sudah di download, dan klik Next untuk melanjutkan.

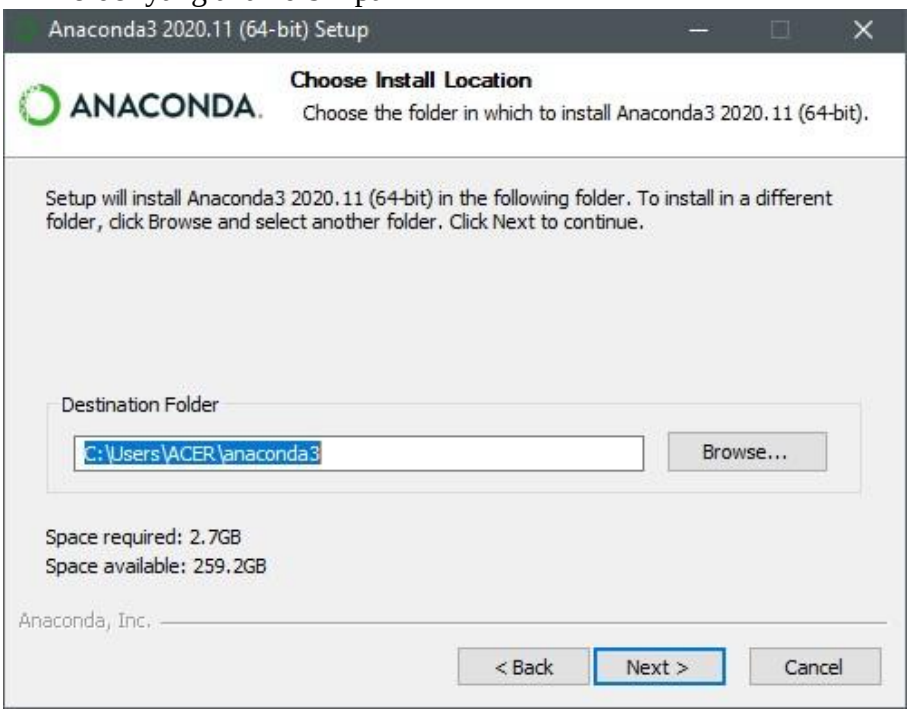

    c. Kemudian akan mucul seperti gambar di bawah, lalu klik I Agree



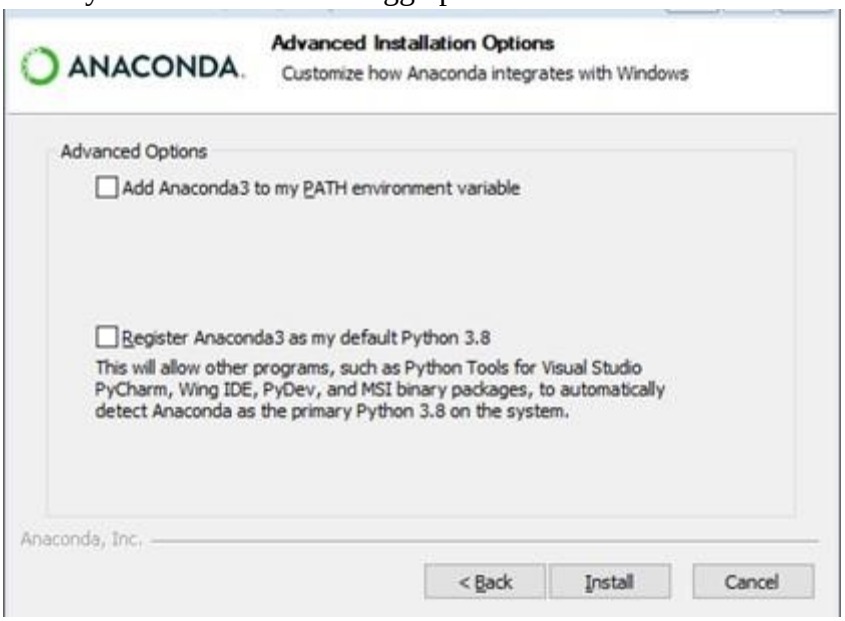

d. Lalu terdapat 2 option, pilih optio Just Me dan klik Next



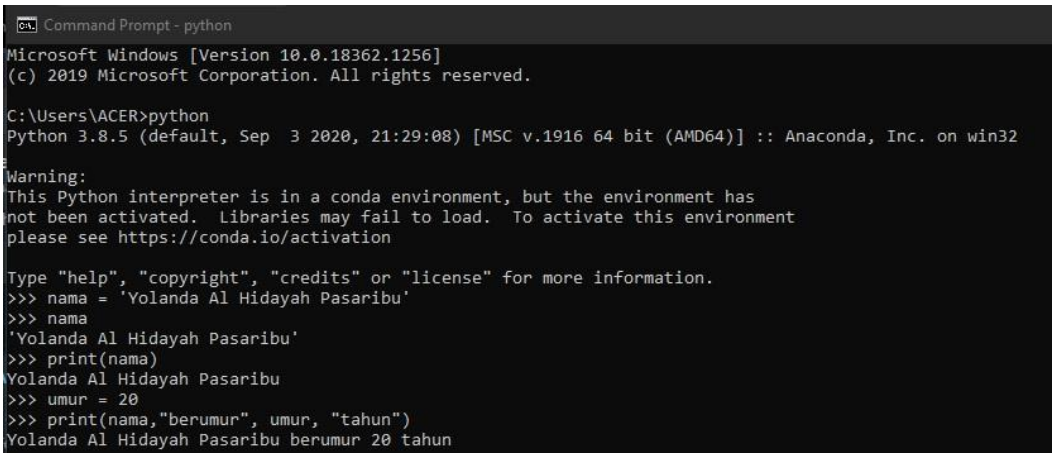
e. Pilih folder yang akan disimpan



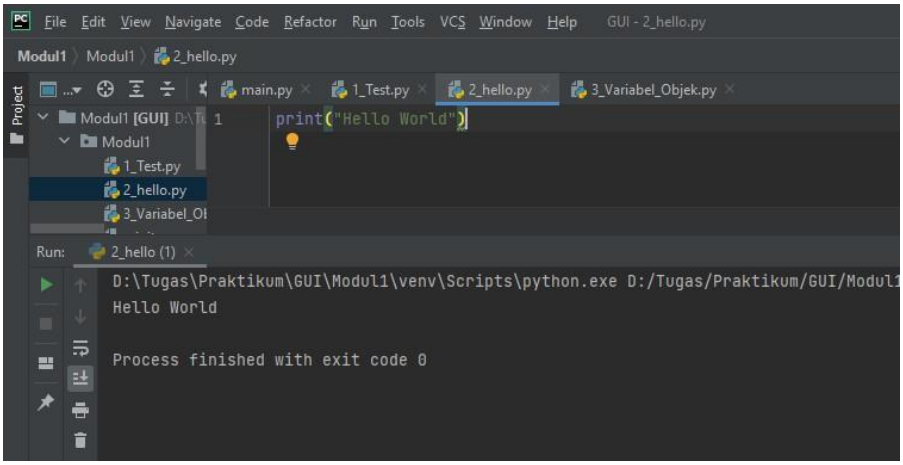

f. Kemudian akan menampilkan seperti pada gambar. Lakukan checklist untuk keduanya dan klik Install. Tunggu proses selesai.



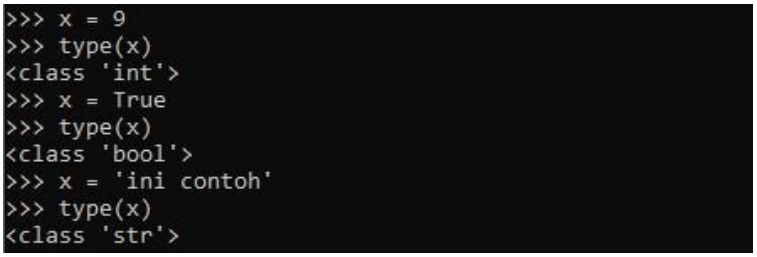
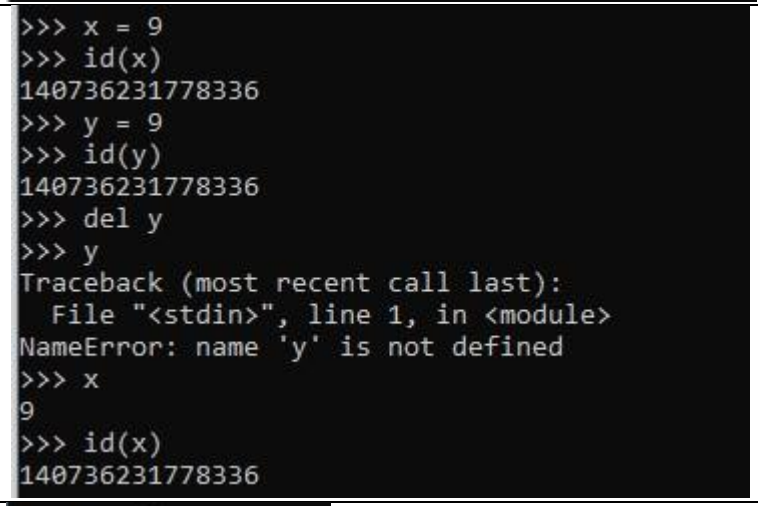
Menggunakan IDLE (Python Shell)




2. Membuat Dan Eksekusi Kode Program Pada Python
   A. Membuat kode program (Text Editor)



3. VARIABEL DAN OBJEK

| Urutan | Screenshot |
|---|---|
| a. |  |
| b. |  |
| c. |  |
| d. |  |
| e. |  |

4. PYTHON BERSIFAT *CASE-SENSITIVE*

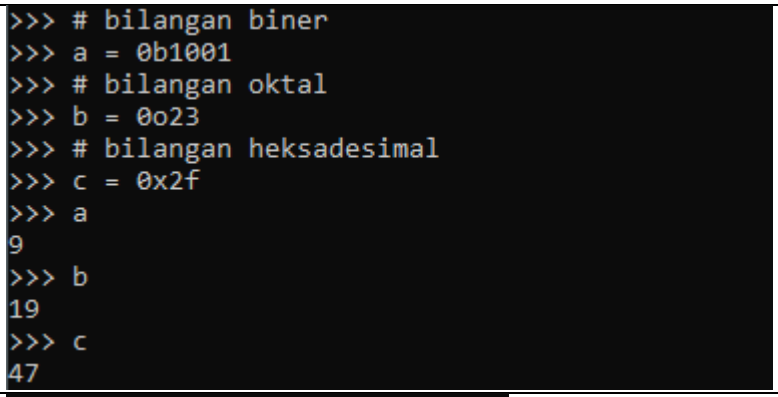
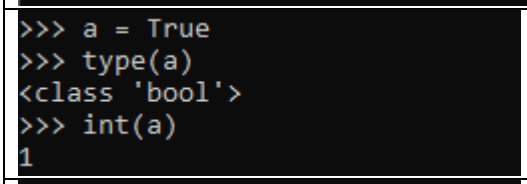
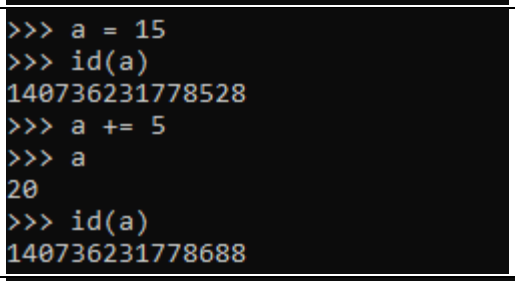
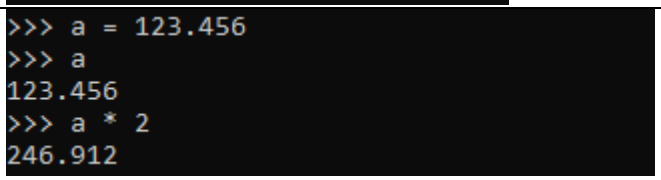
Penulisan kode program pada pythonbersifat case sensitive

```
>>> posisi = (300,300)
>>> posisi
(300, 300)
>>> Posisi
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Posisi' is not defined
```

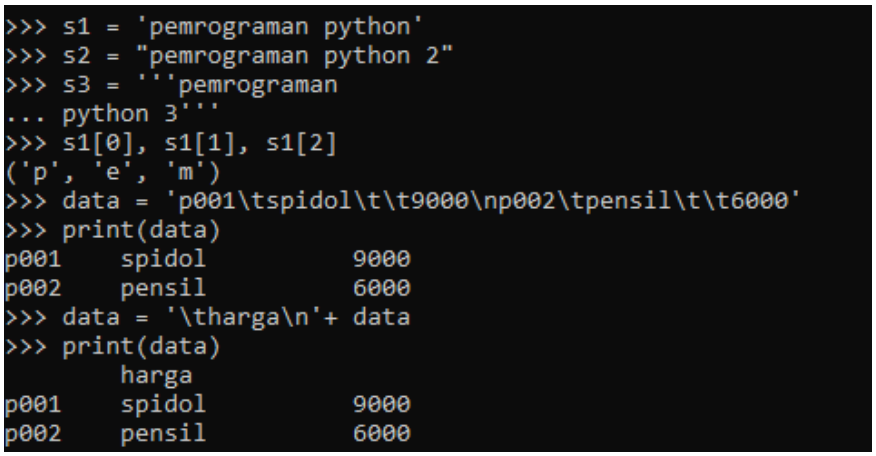
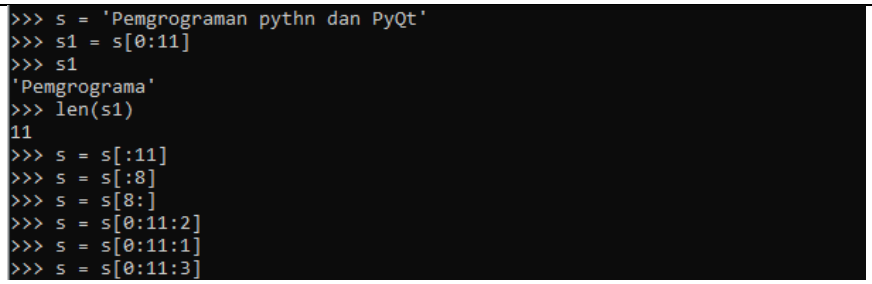
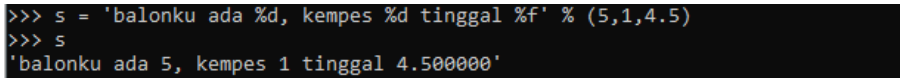
5. PERINTAH PROGRAM (*STATEMENT)*

| No | Screenshoot |
|---|---|
| 1 | `>>> a = 1; b = 2; c = 3`<br>`>>> print(a); print(b); print(c)`<br>`1`<br>`2`<br>`3` |
| 2 | `>>> x = 9`<br>`>>> if isinstance(x,int) and \`<br>`... x > 0 and \`<br>`... x % 2 == 1:`<br>`...  print("%d adalah bilangan bulat ganjil positif" %x)`<br>`...`<br>`9 adalah bilangan bulat ganjil positif`<br>`>>>` |
| 3 | `>>> print("Pemrograman GUI" + "dengan Python dan PyQt")`<br>`Pemrograman GUIdengan Python dan PyQt`<br>`>>> data = [`<br>`... 100,`<br>`... 200,`<br>`... 300,`<br>`... ]`<br>`>>> kamus = {`<br>`... 'one' : 'satu',`<br>`... 'two' : 'dua',`<br>`... 'three' : 'tiga'`<br>`... }`<br>`>>> data`<br>`[100, 200, 300]`<br>`>>> kamus`<br>`{'one': 'satu', 'two': 'dua', 'three': 'tiga'}` |

## 6. TIPE NUMERIK

| Keterangan | Screenshoot |
|---|---|
| Bilangan Bulat |  |
| |  |
| |  |
| Bilangan Rill |  |

## 7. TIPE STRING

| Keterangan | Screenshoot |
|---|---|
| - |  |
| Membandingkan String |  |
| Mengekstrak Substring |  |
| Membuat String dengan format tertentu |  |

8. TIPE KOLEKSI

```
>>> list = ['balon', 'budi','ada',5]
```

```
>>> for item in list:
... print(item)
  File "<stdin>", line 2
    print(item)
    ^
IndentationError: expected an indented block
```