

LAPORAN PRAKTIKUM

Pertemuan 1

Instalasi dan Pengenalan Anaconda Phtyon



Disusun Oleh :

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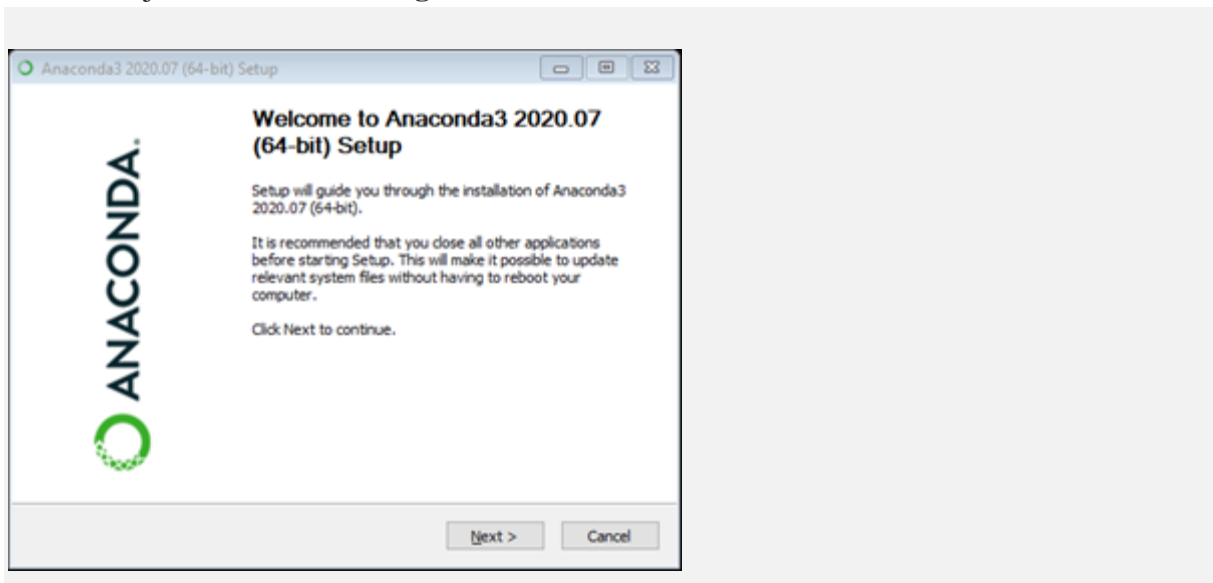
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**PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK
FAKULTAS INFORMATIKA
INSTITUT TEKNOLOGI TELKOM
PURWOKERTO
2021**

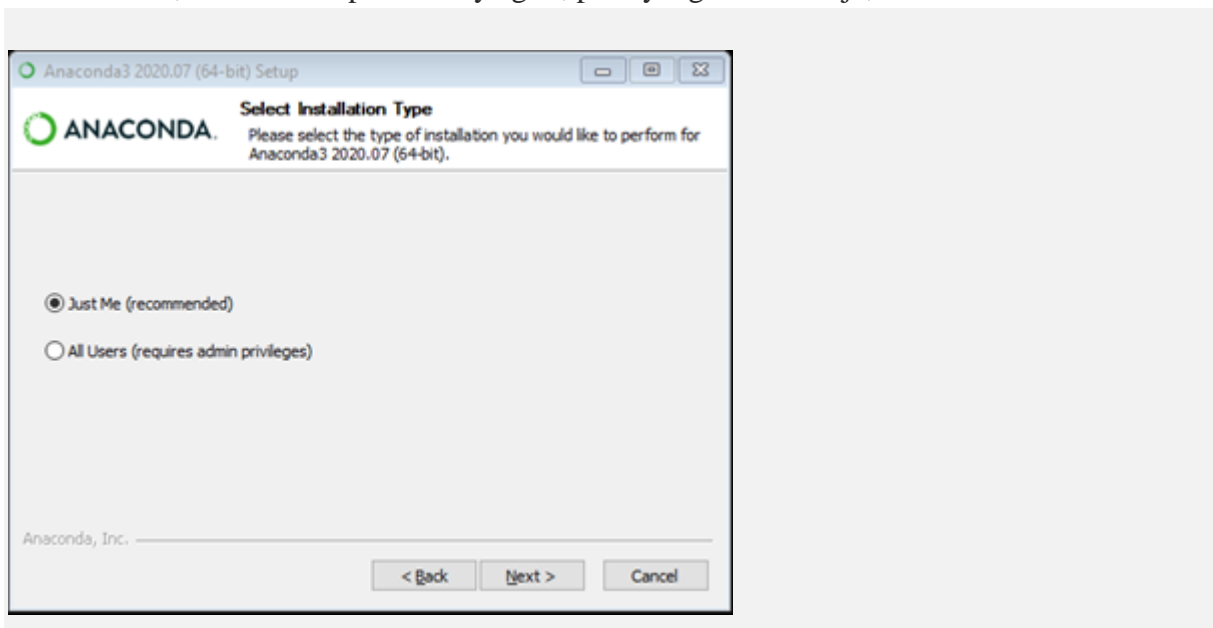
BAB I

INSTALASI ANACONDA PHYTON

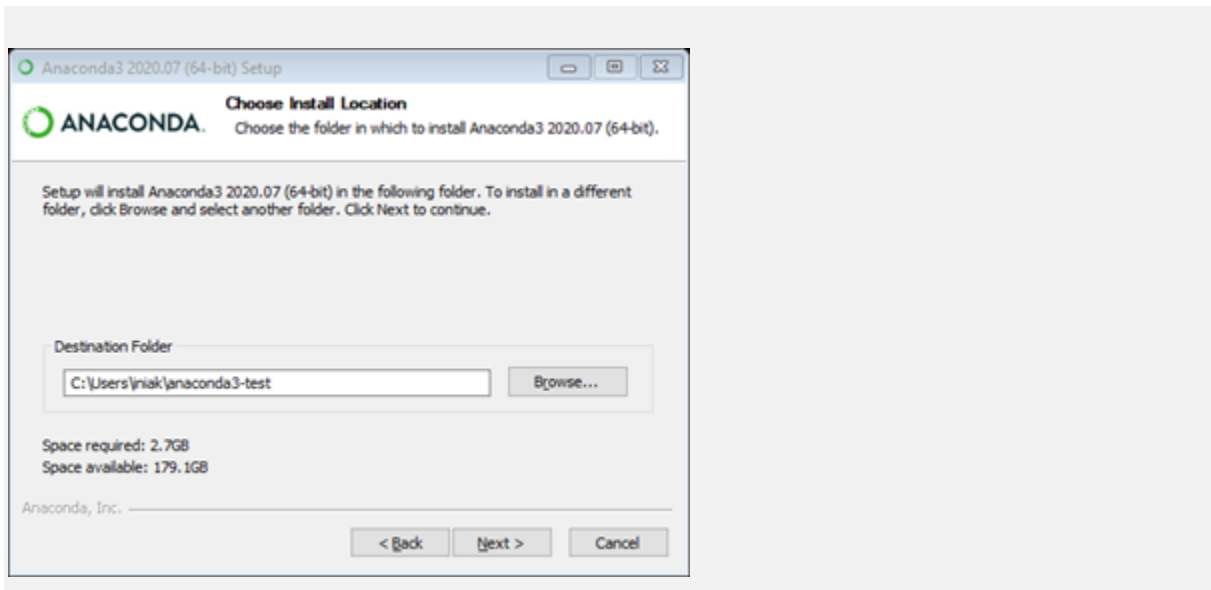
1. Download anaconda melalui link berikut, <https://www.anaconda.com/products/individual>
2. Pilih versi OS sesuai komputer kamu. Setelah itu tunggu, dan jalankan **run as administrator** di aplikasi anacondanya. Ntar bakalan muncul popup instalasi kaya gini, klik **next** aja, setelah itu klik **I agree**



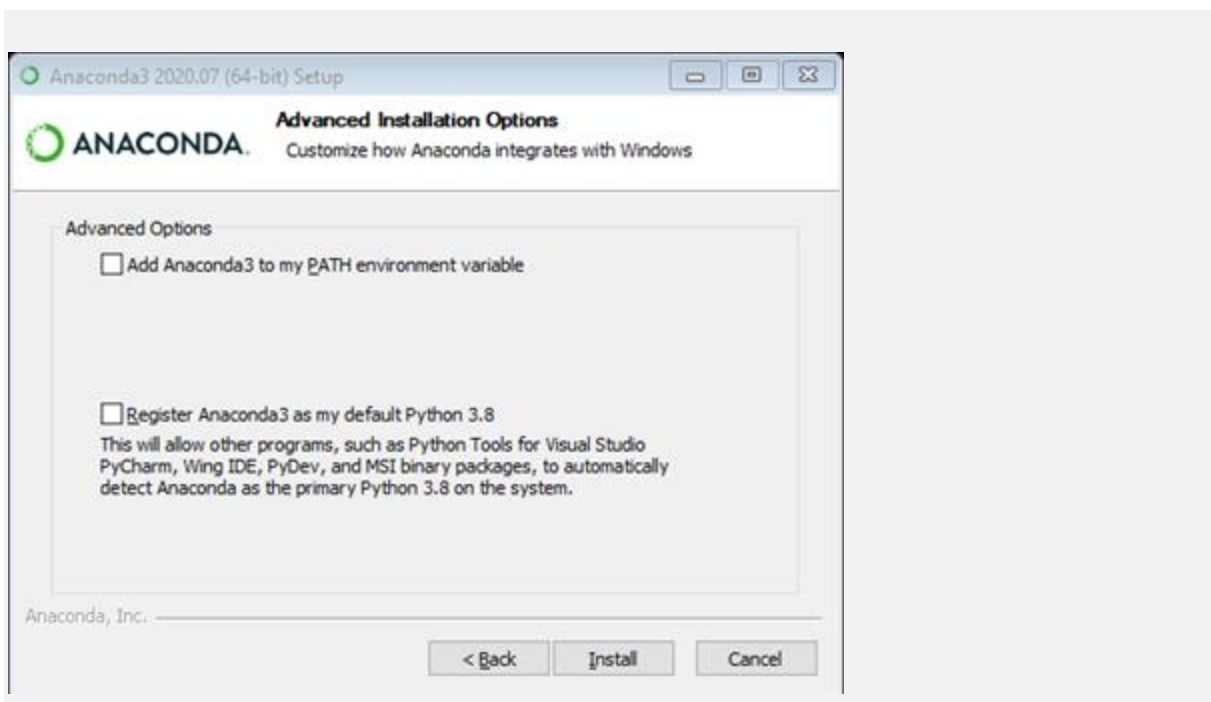
3. Setelah itu, bakalan ada pilihan kaya gini, pilih yang **Just Me** aja, terus klik next



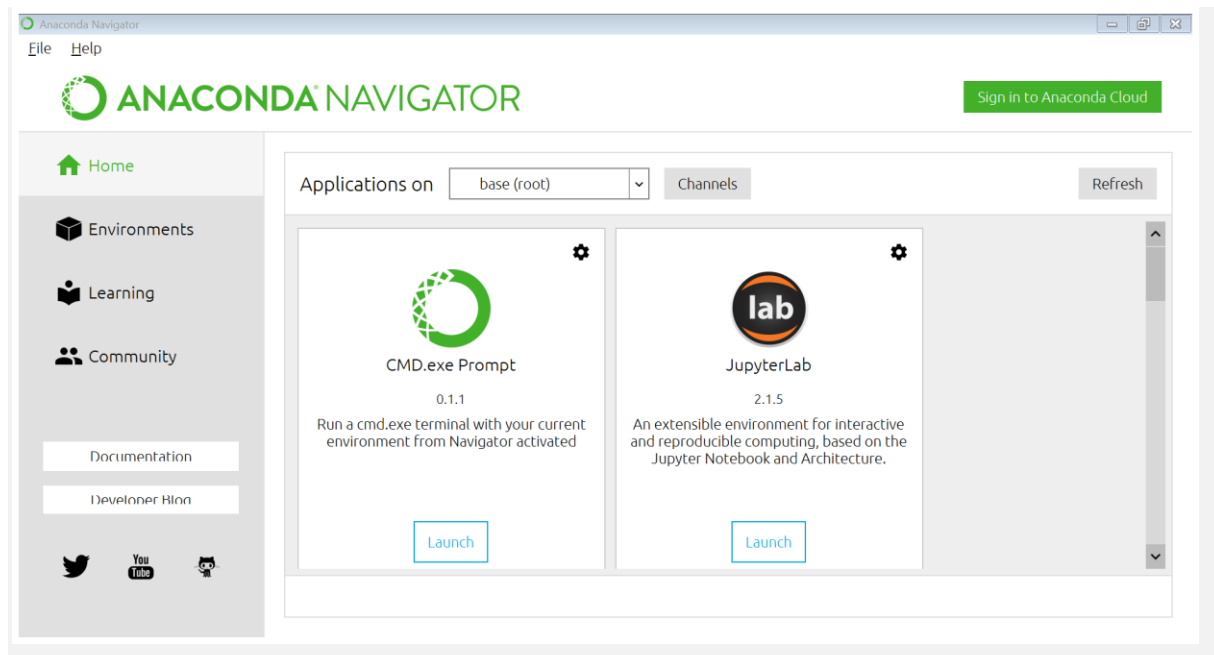
4. Pilih folder anaconda bakal diinstal, klik **next**



5. Opsi ini ga perlu dicheck untuk yg pertama, karena kalau kita mau nginstall anaconda baru, padahal versi sebelumnya udah dihapus, dia mungkin bakalan error. Opsi yang kedua ga dicheck juga ga masalah kalau di laptop kamu udah ada python terpisah dari python bawaan anaconda. Lalu klik install



6. Tunggu proses selesai. Setelah aplikasi berhasil diinstall, kita bisa search aplikasi anaconda di windows. Dan bakalan muncul Anaconda Navigator yg kaya gini tampilannya.

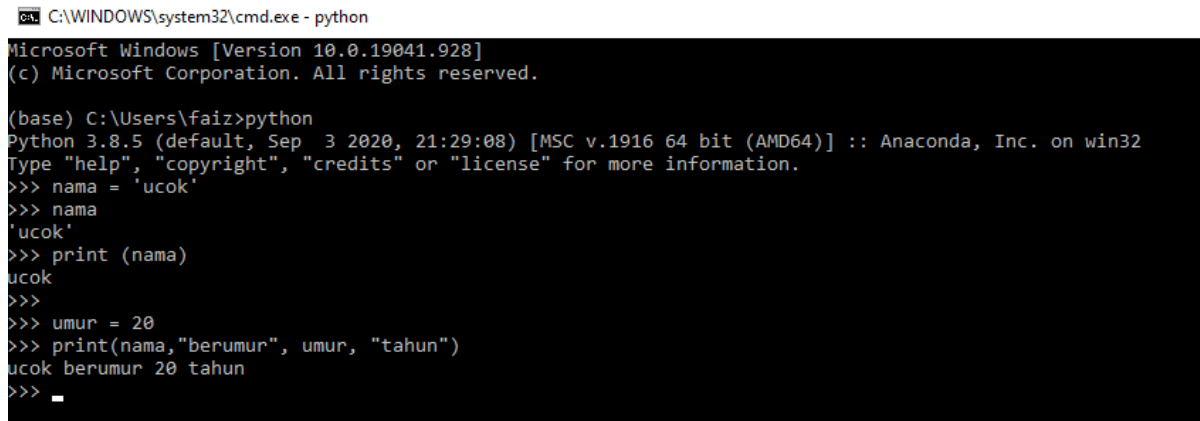


Oke kita bedah menunya satu-satu ya, jadi menu **Home** menyimpan berbagai tools keren yang bakal berguna banget buat ngoding, ada jupyterlab, jupyter notebook, qt console, spyder, vscode, glueviz, orange3, dan rstudio. Kalau kita ga pake anaconda, kita harus install satu — satu software tersebut. Cukup memakan waktu sih kalau kita pengen cepet juga.

BAB II

Praktikum

1. Contoh 1

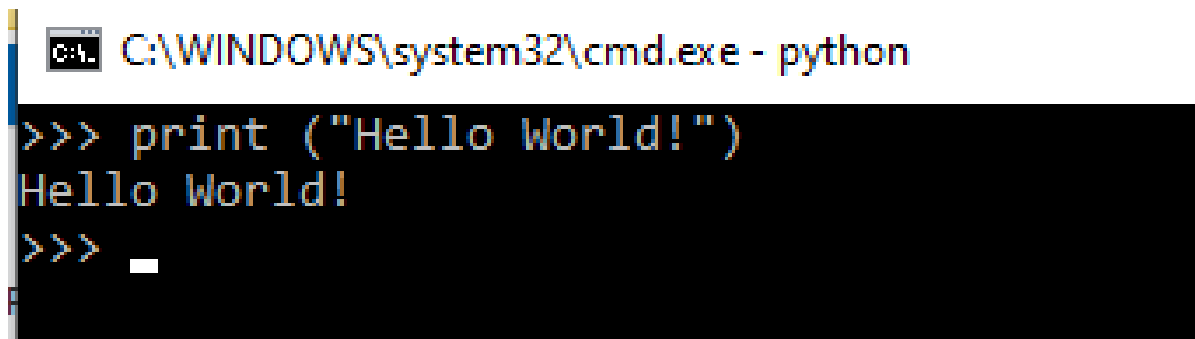
A screenshot of a Windows command prompt window. The title bar reads "C:\WINDOWS\system32\cmd.exe - python". The window content shows the output of running the Python interpreter. It starts with the standard Windows version and copyright information. Then, it shows the Python 3.8.5 environment, including the Anaconda path. The user enters several Python commands: assigning 'ucok' to 'nama', printing 'nama', assigning 20 to 'umur', and printing 'nama', 'berumur', 'umur', and 'tahun'. The output shows 'ucok' and 'ucok berumur 20 tahun'.

```
C:\WINDOWS\system32\cmd.exe - python
Microsoft Windows [Version 10.0.19041.928]
(c) Microsoft Corporation. All rights reserved.

(base) C:\Users\faiz>python
Python 3.8.5 (default, Sep  3 2020, 21:29:08) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> nama = 'ucok'
>>> nama
'ucok'
>>> print (nama)
ucok
>>>
>>> umur = 20
>>> print(nama,"berumur", umur, "tahun")
ucok berumur 20 tahun
>>> _
```

Print nama dan umur

2. Contoh 2

A screenshot of a Windows command prompt window. The title bar reads "C:\WINDOWS\system32\cmd.exe - python". The window content shows the output of running a single Python command: print("Hello World!"). The output is "Hello World!".

```
C:\WINDOWS\system32\cmd.exe - python
>>> print ("Hello World!")
Hello World!
>>> _
```

Print kalimat Hello World

3. Contoh 3

C:\WINDOWS\system32\cmd.exe - python

```
>>> x = 9
>>> type(x)
<class 'int'>
>>> x = True
>>> type(x)
<class 'bool'>
>>> x = 'Contoh'
>>> type(x)
<class 'str'>
>>>
```

a)

Tipe-tipe jenis data

C:\WINDOWS\system32\cmd.exe - python

```
>>> x = 9
>>> id(x)
140712555653152
>>> y = 9
>>> id(y)
140712555653152
>>>
>>> del y
>>> y
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'y' is not defined
>>> Y
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Y' is not defined
>>> x
9
>>> id(x)
140712555653152
>>>
```

b)

4. Contoh 4

```

>>>
>>> posisi= (300,300)
>>> 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. Contoh 5

a)

```

C:\WINDOWS\system32\cmd.exe - python
>>> a = 1; b = 2; c = 3
>>> print(a);print(b);print(c)
1
2
3
>>>

```

b)

```

C:\WINDOWS\system32\cmd.exe - python
>>> X = 9
>>> if isinstance(X,int) and \
... X > 0 and \
... X % 2 == 1:
... print("%d adalah bilangan bulat ganjil positif"%x)
File "<stdin>", line 4
    print("%d adalah bilangan bulat ganjil positif"%x)
    ^
IndentationError: expected an indented block
>>> print("%d adalah bilangan bulat ganjil positif"%x)
9 adalah bilangan bulat ganjil positif
>>> _

```

```
C:\WINDOWS\system32\cmd.exe - python
>>> print ("Pemrograman GUI" + "dengan Python dan PYQT")
Pemrograman GUIDengan Python dan PYQT
>>> data = [
... 100,
... 200,
... 300
... ]
>>> kamus = {
... 'One' : 'Satu',
... 'Two' : 'Dua',
... 'Three' : 'Tiga'
... }
>>> data
[100, 200, 300]
>>> kamus
{'One': 'Satu', 'Two': 'Dua', 'Three': 'Tiga'}
>>> _
```

c)

6. Contoh 6

```
C:\WINDOWS\system32\cmd.exe - python
>>> #bilangan biner
>>> a = 0b1001
>>> #bilangan Oktal
>>> b = 0o23
>>> #bilangan heksadesimal
>>> c = 0x2f
>>> a
9
>>> b
19
>>> c
47
>>> _
```

a)


```
C:\WINDOWS\system32\cmd.exe - python

>>> a = True
>>> type(a)
<class 'bool'>
>>> int(a)
1
>>> a = 15
>>> id(a)
140712555653344
>>> a += 5
>>> a
20
>>> id(a)
140712555653504
>>> _
```

b)

```
C:\WINDOWS\system32\cmd.exe - python

>>> a = 123.456
>>> a
123.456
>>> a * 2
246.912
>>> _
```

c)

7. Contoh 7

```
C:\WINDOWS\system32\cmd.exe - python

>>> S1 = 'Pemrograman Python'
>>> S2 = "Pemrograman Python 2"
>>> S3 = '''Pemrograman
... Python 3 '''
>>> S1[0], S1[1], S1[2]
('P', 'e', 'm')
>>> data = 'p001\tspidol\t\t900\np002\tpensil\t\t6000'
>>> print(data)
p001      spidol          900
p002      pensil         6000
>>>
```

a)

```
C:\WINDOWS\system32\cmd.exe - python

>>> S1 = 'Pemrograman Python'
>>> S2 = "Pemrograman Python 2"
>>> S3 = '''Pemrograman
... Python 3 '''
>>> S1[0], S1[1], S1[2]
('P', 'e', 'm')
>>> data = 'p001\tspidol\t\t900\np002\tpensil\t\t6000'
>>> print(data)
p001      spidol          900
p002      pensil         6000
>>>
>>> data = '\tharga\n' + data
>>> print(data)
        harga
p001      spidol          900
p002      pensil         6000
>>>
```

b)

C:\WINDOWS\system32\cmd.exe - python

```
>>> S1 = 'Python'
>>> S2 = 'PYTHON'
>>> S1 == S2
False
>>> S1 != S2
True
>>> S1 < S2
False
>>>
```

c)

C:\WINDOWS\system32\cmd.exe - python

```
>>> S = 'Pemrograman Python dan PyQt'
>>> S1 = S[0 : 11]
>>> S1
'Pemrograman'
>>> len(S1)
11
>>> _
```

d)

C:\WINDOWS\system32\cmd.exe - python

```
>>>
>>>
>>> S = 'Balonku ada %d, kempes %d tinggal %f' % (5,1,4.5)
>>> S
'Balonku ada 5, kempes 1 tinggal 4.500000'
>>>
```

e)

8. Contoh 8

C:\WINDOWS\system32\cmd.exe - python

```
>>> list = ['balon', 'budi', 'ada', 5]
>>> list[2] = 6
>>> for item in list:
...     print(item)
...
balon
budi
6
5
>>> _
```