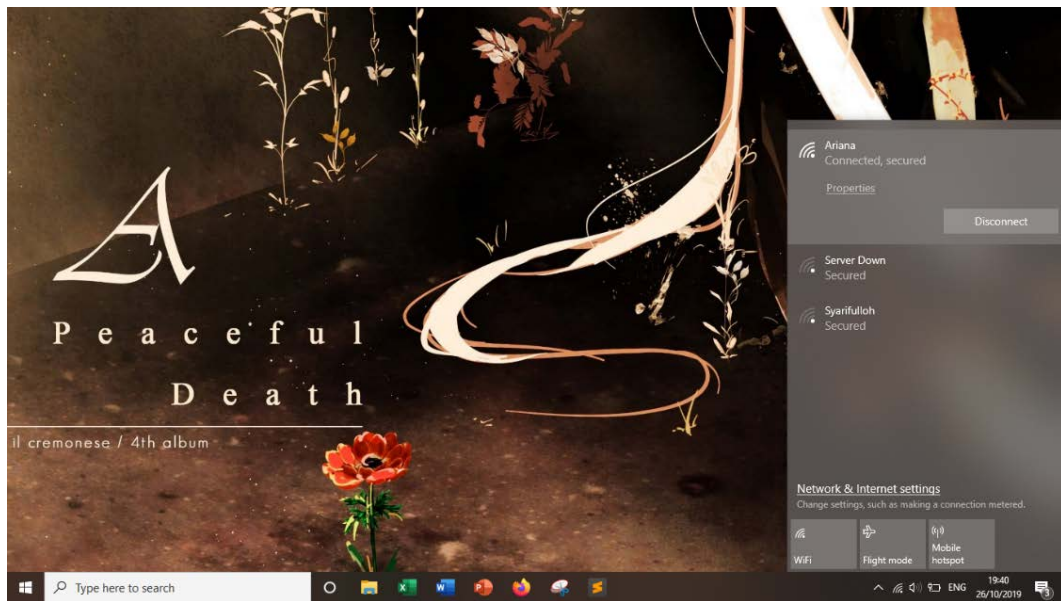
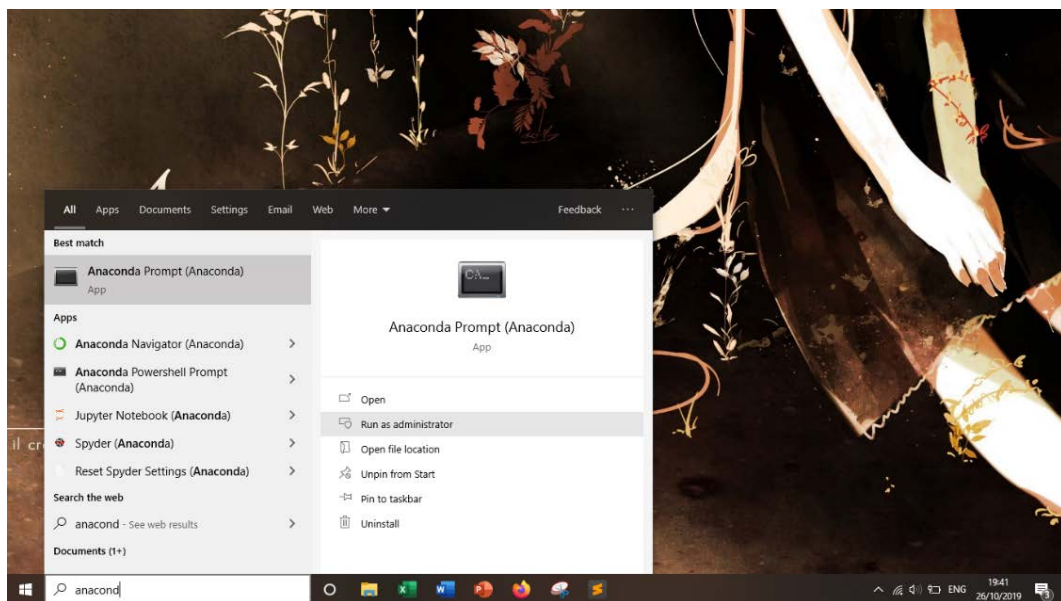


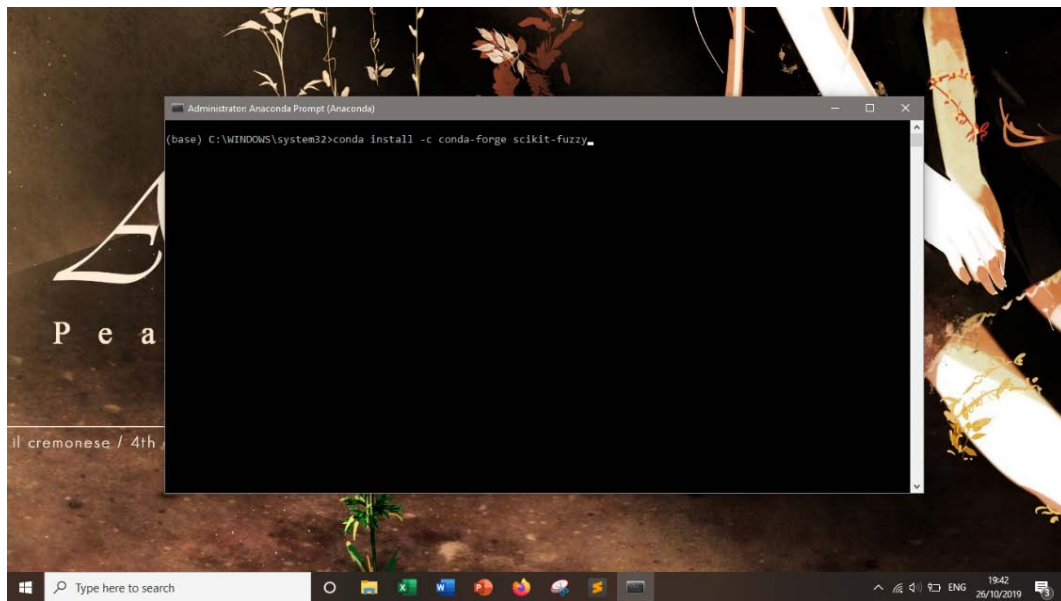
INSTALASI SCIKIT-FUZZY DI ANACONDA



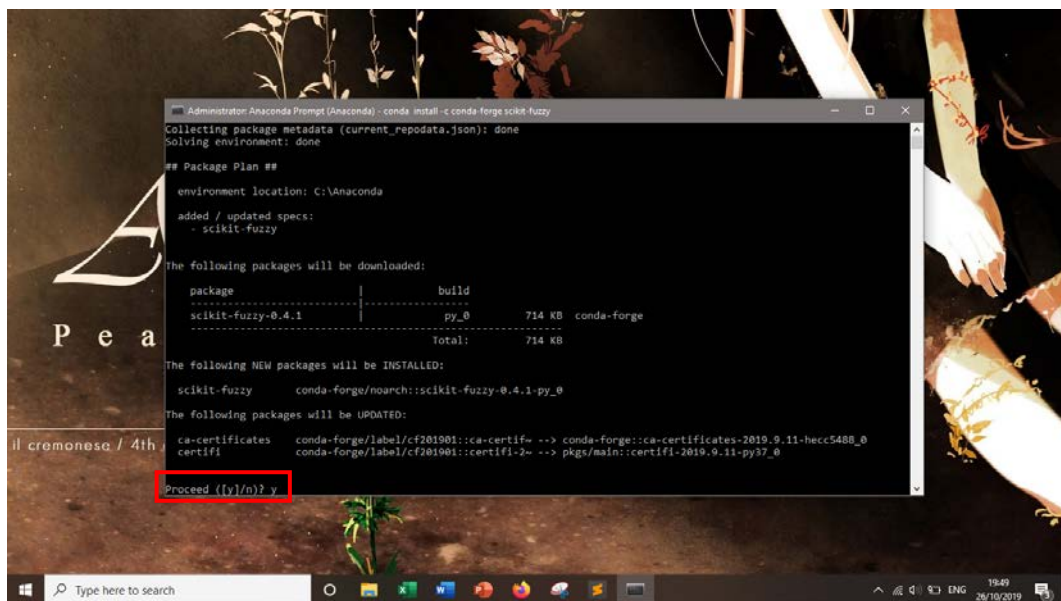
Pastikan PC kalian tersambung dengan **jaringan internet**.



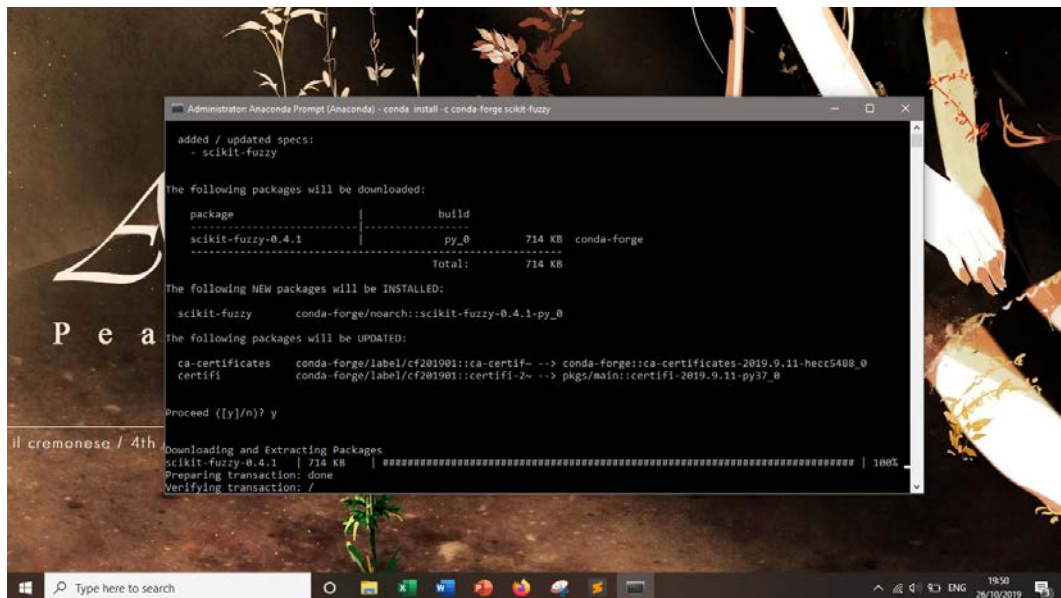
Buka **Anaconda Prompt** (Run as Administrator).



Ketik: **conda install -c conda-forge scikit-fuzzy**, kemudian tekan Enter.



Tunggu beberapa saat hingga muncul tulisan **Proceed ([y]/n)?** Ketik **y** kemudian tekan Enter.



```
Administrator: Anaconda Prompt (Anaconda) - conda install -c conda-forge scikit-fuzzy

added / updated specs:
- scikit-fuzzy

The following packages will be downloaded:

package ----- build -----
scikit-fuzzy-0.4.1 ----- py_0 ----- 714 KB conda-forge
Total: ----- 714 KB -----

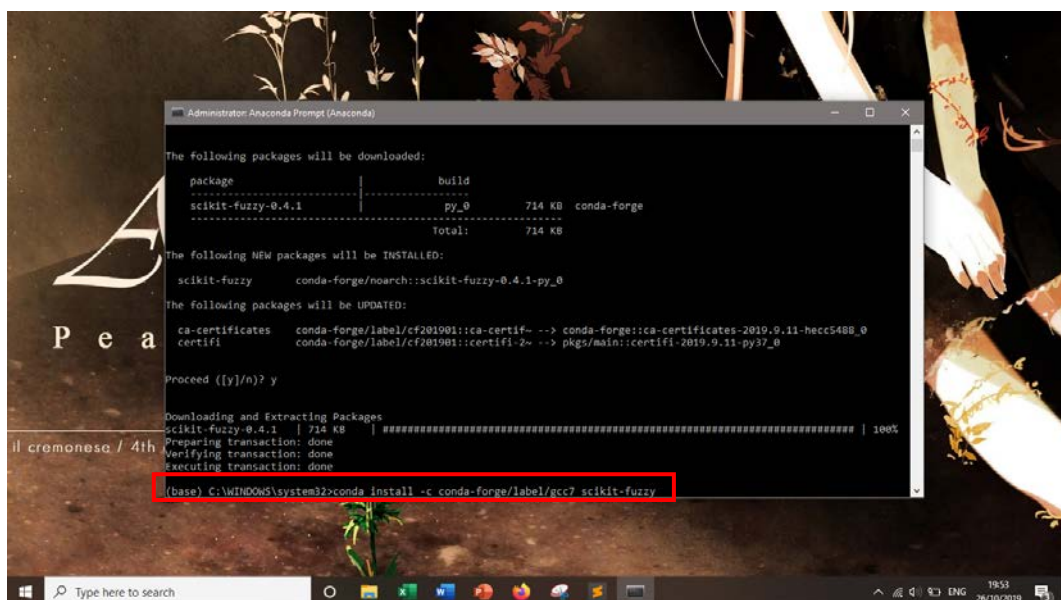
The following NEW packages will be INSTALLED:
scikit-fuzzy conda-forge/noarch::scikit-fuzzy-0.4.1-py_0

The following packages will be UPDATED:
ca-certificates conda-forge/label/cf201901::ca-certif- --> conda-forge::ca-certificates-2019.9.11-hecc548b_0
certifi conda-forge/label/cf201901::certifi-2~ --> pkgs/main::certifi-2019.9.11-py37_0

Proceed ([y]/n)? y

Downloading and Extracting Packages
scikit-fuzzy-0.4.1 | 714 KB | 100%
Preparing transaction: done
Verifying transaction: /
```

Tunggu proses download dan instalasi hingga selesai.



```
Administrator: Anaconda Prompt (Anaconda)

The following packages will be downloaded:

package ----- build -----
scikit-fuzzy-0.4.1 ----- py_0 ----- 714 KB conda-forge
Total: ----- 714 KB -----

The following NEW packages will be INSTALLED:
scikit-fuzzy conda-forge/noarch::scikit-fuzzy-0.4.1-py_0

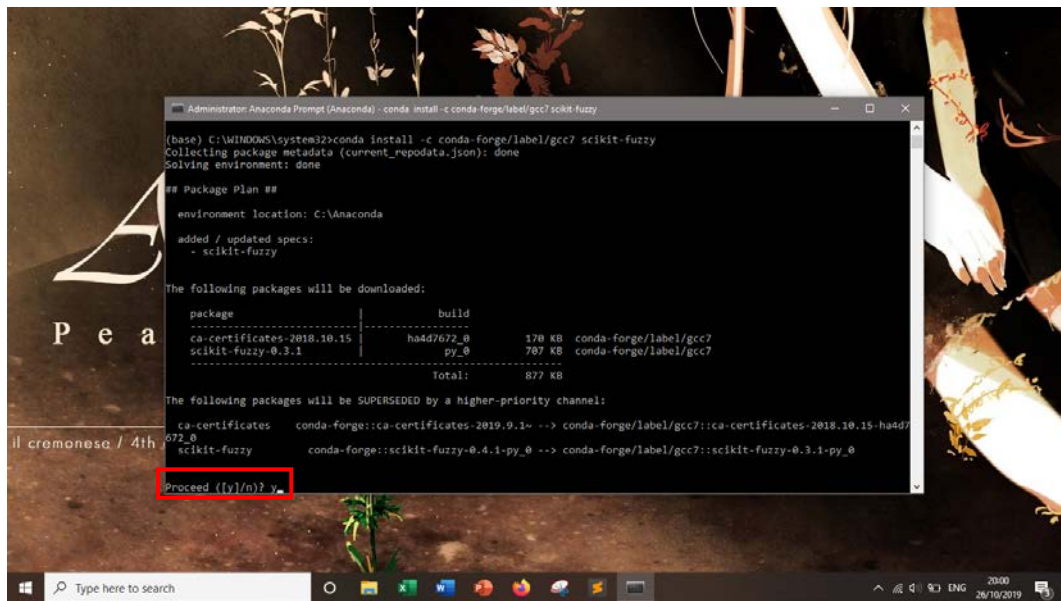
The following packages will be UPDATED:
ca-certificates conda-forge/label/cf201901::ca-certif- --> conda-forge::ca-certificates-2019.9.11-hecc548b_0
certifi conda-forge/label/cf201901::certifi-2~ --> pkgs/main::certifi-2019.9.11-py37_0

Proceed ([y]/n)? y

Downloading and Extracting Packages
scikit-fuzzy-0.4.1 | 714 KB | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

(base) C:\Windows\system32>conda install -c conda-forge/label/gcc7 scikit-fuzzy
```

Setelah itu install komponen kedua scikit-fuzzy, dengan cara, ketik: **conda install -c conda-forge/label/gcc7 scikit-fuzzy**, lalu tekan Enter.



```
Administrator: Anaconda Prompt (Anaconda) - conda install -c conda-forge/label/gcc7 scikit-fuzzy
(base) C:\WINDOWS\system32\cmd.exe conda install -c conda-forge/label/gcc7 scikit-fuzzy
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##
  environment location: C:\Anaconda
  added / updated specs:
    - scikit-fuzzy

The following packages will be downloaded:

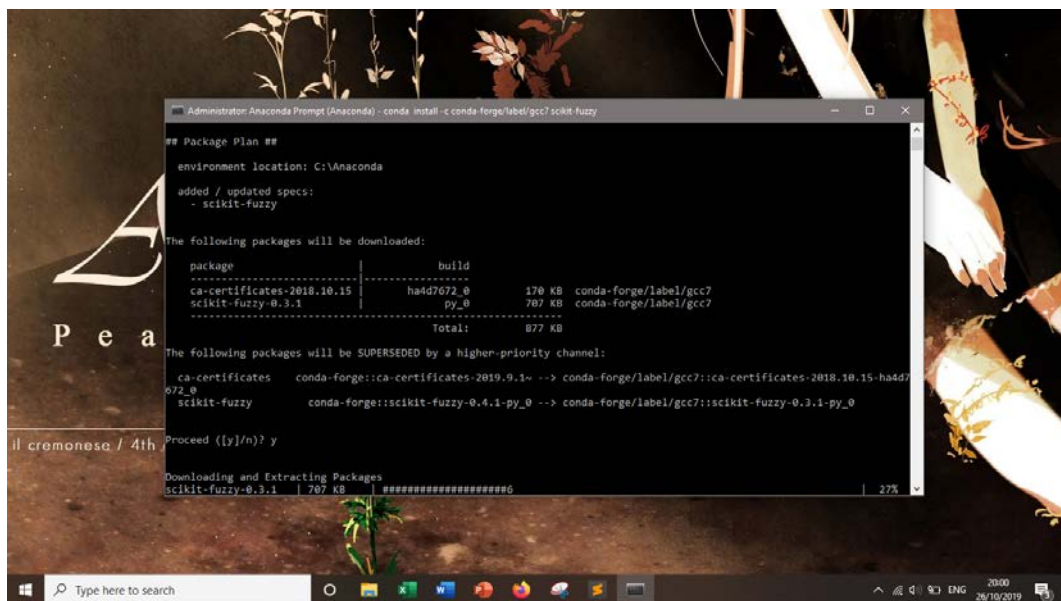
|-----|-----|-----|-----|
| package | build | size | channel |
|-----|-----|-----|-----|
| ca-certificates | 2018.10.15 | 170 KB | conda-forge/label/gcc7 |
| scikit-fuzzy | 0.3.1 | 707 KB | conda-forge/label/gcc7 |
|-----|-----|-----|-----|
| Total: | 877 KB |
|-----|-----|-----|-----|

The following packages will be SUPERSEDED by a higher-priority channel:

|-----|-----|-----|-----|
| package | old version | new version | channel |
|-----|-----|-----|-----|
| ca-certificates | 2018.10.15 | 2019.9.16 | conda-forge/label/gcc7 |
| scikit-fuzzy | 0.4.1-py_0 | 0.3.1-py_0 | conda-forge/label/gcc7 |
|-----|-----|-----|-----|

Proceed ([y]/n)? y
```

Tunggu beberapa saat hingga muncul tulisan **Proceed ([y]/n)?** Ketik **y** kemudian tekan Enter.



```
Administrator: Anaconda Prompt (Anaconda) - conda install -c conda-forge/label/gcc7 scikit-fuzzy
## Package Plan ##
  environment location: C:\Anaconda
  added / updated specs:
    - scikit-fuzzy

The following packages will be downloaded:

|-----|-----|-----|-----|
| package | build | size | channel |
|-----|-----|-----|-----|
| ca-certificates | 2018.10.15 | 170 KB | conda-forge/label/gcc7 |
| scikit-fuzzy | 0.3.1 | 707 KB | conda-forge/label/gcc7 |
|-----|-----|-----|-----|
| Total: | 877 KB |
|-----|-----|-----|-----|

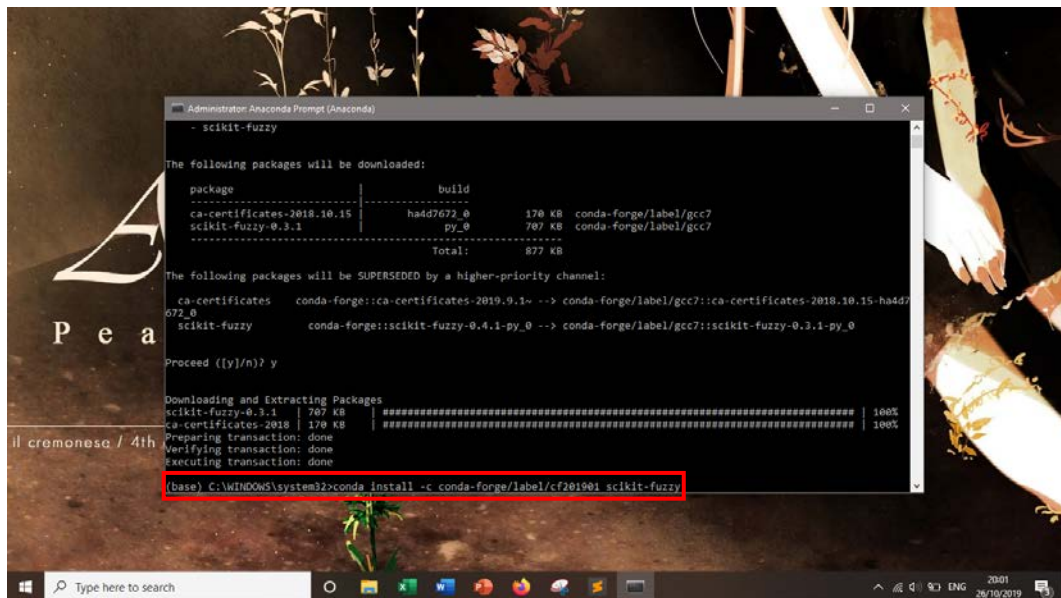
The following packages will be SUPERSEDED by a higher-priority channel:

|-----|-----|-----|-----|
| package | old version | new version | channel |
|-----|-----|-----|-----|
| ca-certificates | 2018.10.15 | 2019.9.16 | conda-forge/label/gcc7 |
| scikit-fuzzy | 0.4.1-py_0 | 0.3.1-py_0 | conda-forge/label/gcc7 |
|-----|-----|-----|-----|

Proceed ([y]/n)? y

Downloading and Extracting Packages
scikit-fuzzy-0.3.1 | 707 KB | ***** | 27%
```

Tunggu proses download dan instalasi **komponen kedua** hingga selesai.



```
Administrator: Anaconda Prompt (Anaconda)
- scikit-fuzzy

The following packages will be downloaded:

package                                build                                size      channel
-----                                -
ca-certificates-2018.10.15             hadd7672_0                         170 KB    conda-forge/label/gcc7
scikit-fuzzy-0.3.1                     py_0                               707 KB    conda-forge/label/gcc7
Total:                                  877 KB

The following packages will be SUPERSEDED by a higher-priority channel:

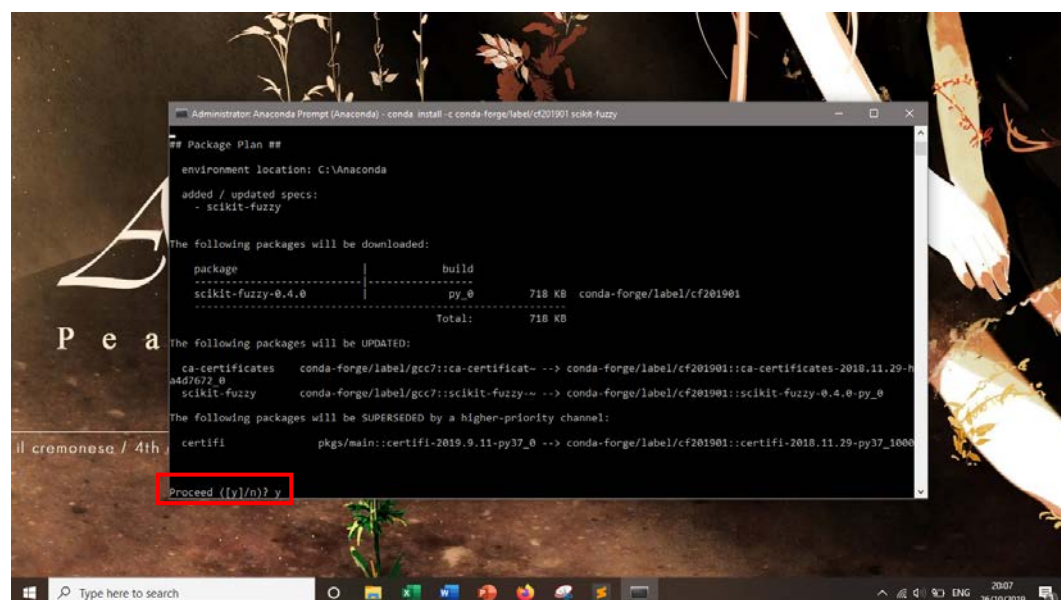
ca-certificates    conda-forge::ca-certificates-2019.9.14 --> conda-forge/label/gcc7::ca-certificates-2018.10.15-hadd7672_0
scikit-fuzzy       conda-forge::scikit-fuzzy-0.4.1-py_0 --> conda-forge/label/gcc7::scikit-fuzzy-0.3.1-py_0

Proceed ([y]/n)? y

Downloading and Extracting Packages
scikit-fuzzy-0.3.1 | 707 KB | ##### | 100%
ca-certificates-2018 | 170 KB | ##### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

(base) C:\WINDOWS\system32>conda install -c conda-forge/label/cf201901 scikit-fuzzy
```

Setelah itu, install komponen terakhir scikit-fuzzy, dengan cara, ketik: **conda install -c conda-forge/label/cf201901 scikit-fuzzy**, lalu tekan Enter.



```
Administrator: Anaconda Prompt (Anaconda) - conda install -c conda-forge/label/cf201901 scikit-fuzzy

## Package Plan ##

environment location: C:\Anaconda

added / updated specs:
- scikit-fuzzy

The following packages will be downloaded:

package                                build                                size      channel
-----                                -
scikit-fuzzy-0.4.0                     py_0                               710 KB    conda-forge/label/cf201901
Total:                                  710 KB

The following packages will be UPDATED:

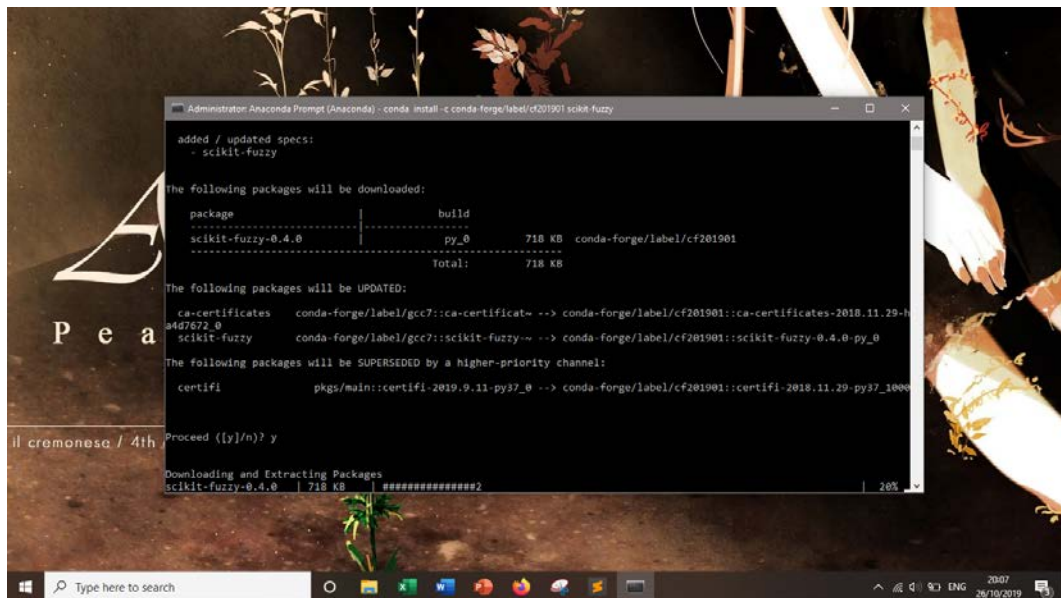
ca-certificates    conda-forge/label/gcc7::ca-certificat~ --> conda-forge/label/cf201901::ca-certificates-2018.11.29-hadd7672_0
scikit-fuzzy       conda-forge/label/gcc7::scikit-fuzzy~ --> conda-forge/label/cf201901::scikit-fuzzy-0.4.0-py_0

The following packages will be SUPERSEDED by a higher-priority channel:

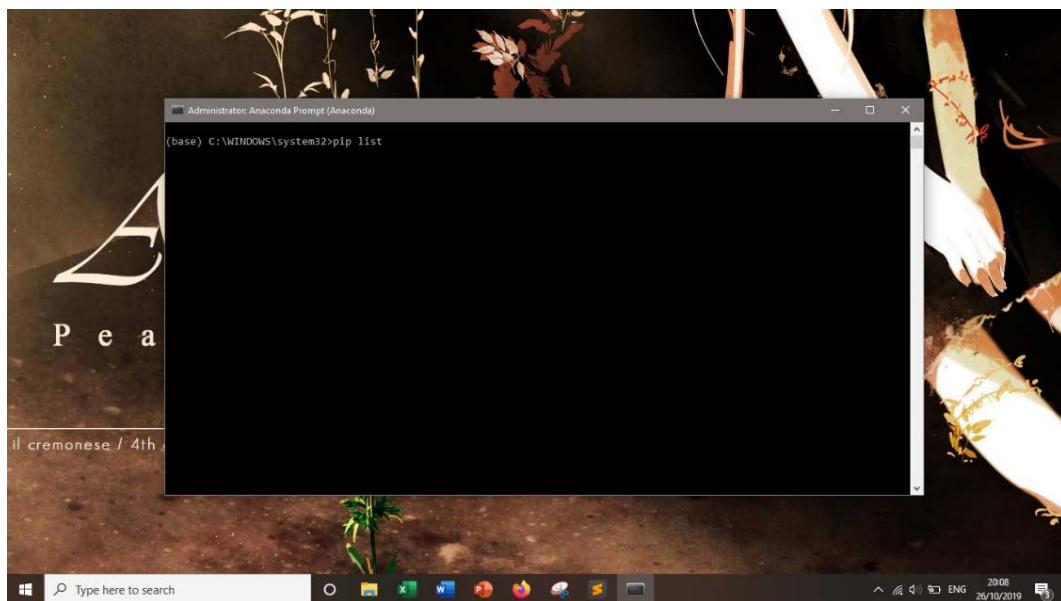
certifi            pkgs/main::certifi-2019.9.11-py37_0 --> conda-forge/label/cf201901::certifi-2018.11.29-py37_1000

Proceed ([y]/n)? y
```

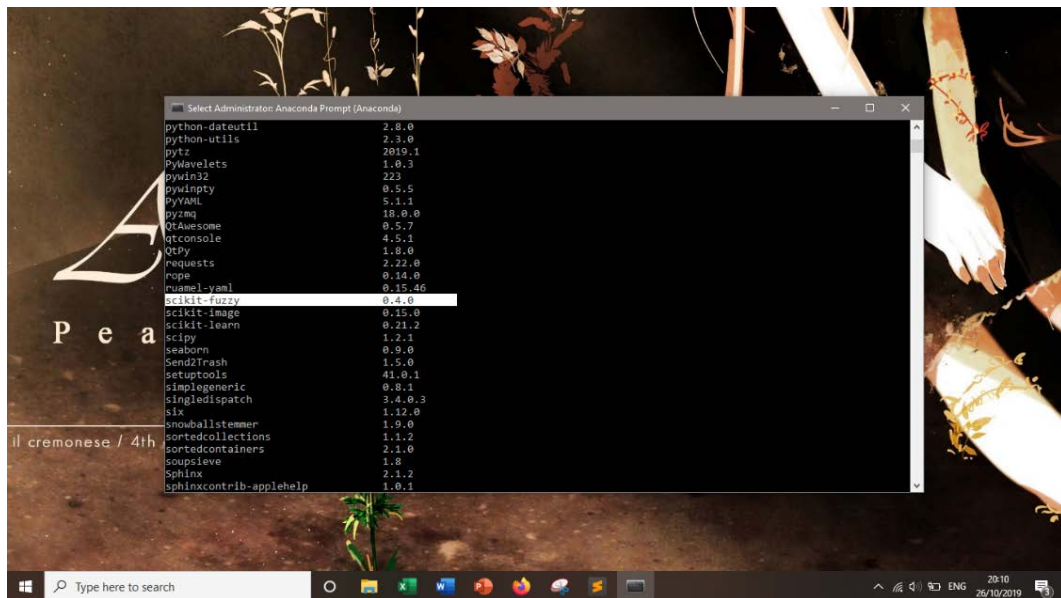
Tunggu beberapa saat hingga muncul tulisan **Proceed ([y]/n)?** Ketik **y** kemudian tekan Enter.



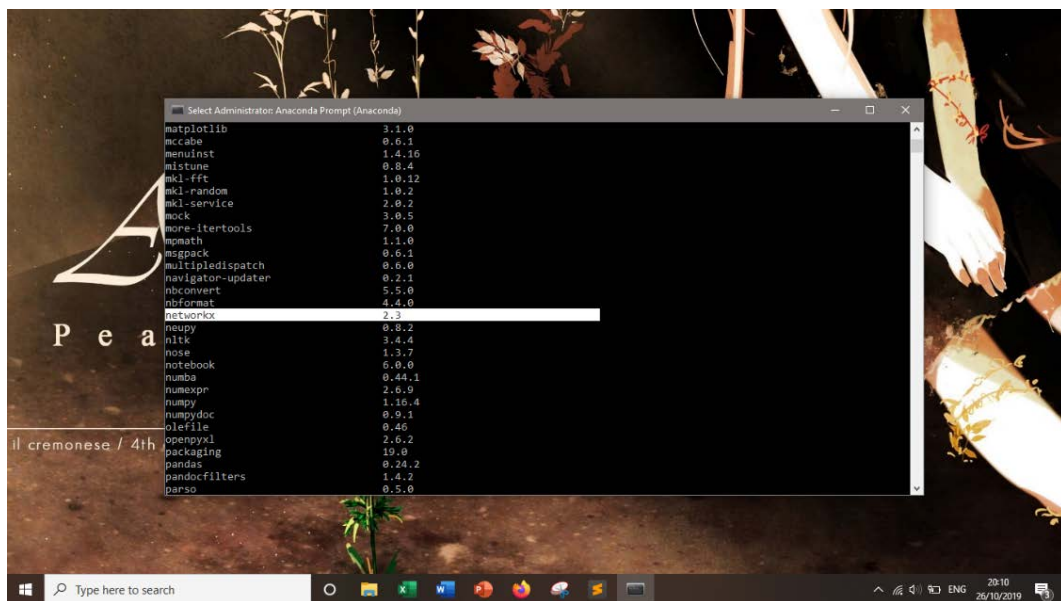
Tunggu proses download dan instalasi **komponen terakhir** hingga selesai.



Jika ketiga komponen telah terinstall, **lakukan pengecekan** hasil instalasi (package). Ketik: **pip list** pada Anaconda Prompt, kemudian tekan Enter.

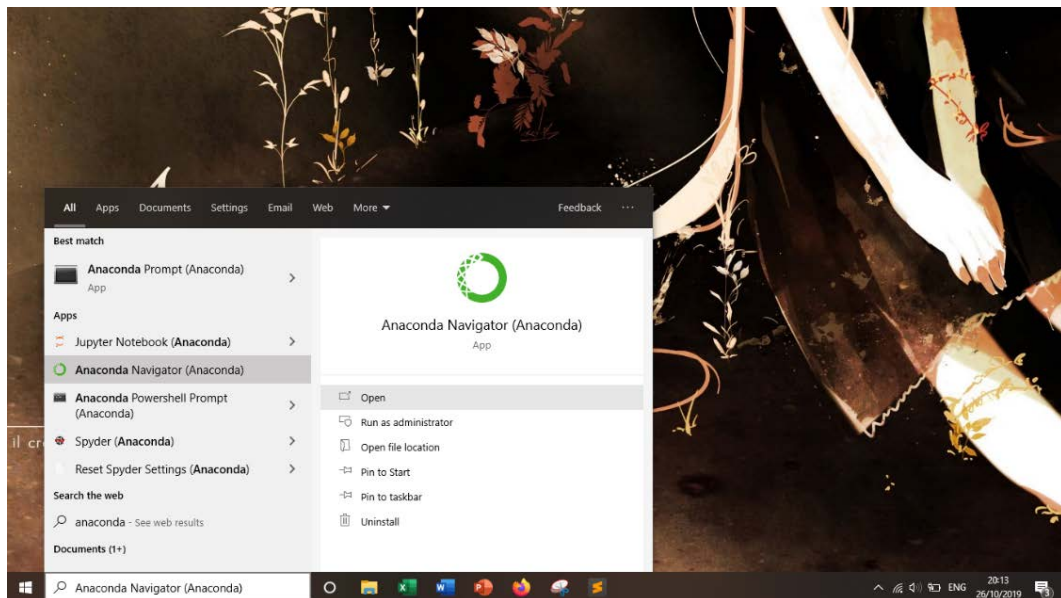


Cari package bernama **scikit-fuzzy** (versi 0.4.0).

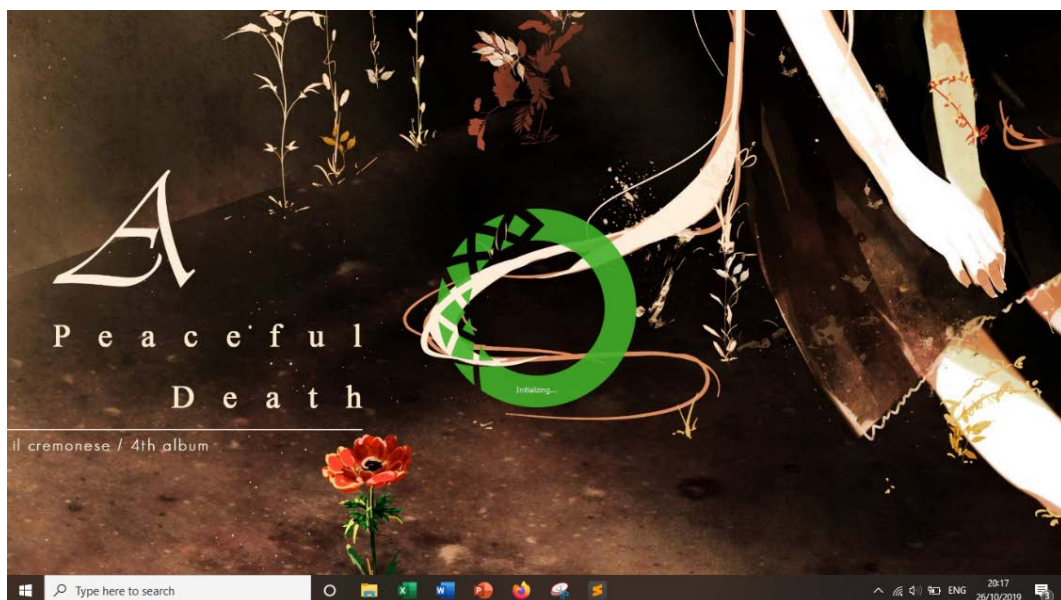


Lalu cari package bernama **networkx** (versi 2.3). Jika kedua package **berhasil ditemukan**, maka instalasi scikit-fuzzy telah sukses. Namun, jika **tidak ditemukan**, maka ulangi proses instalasi dari awal.

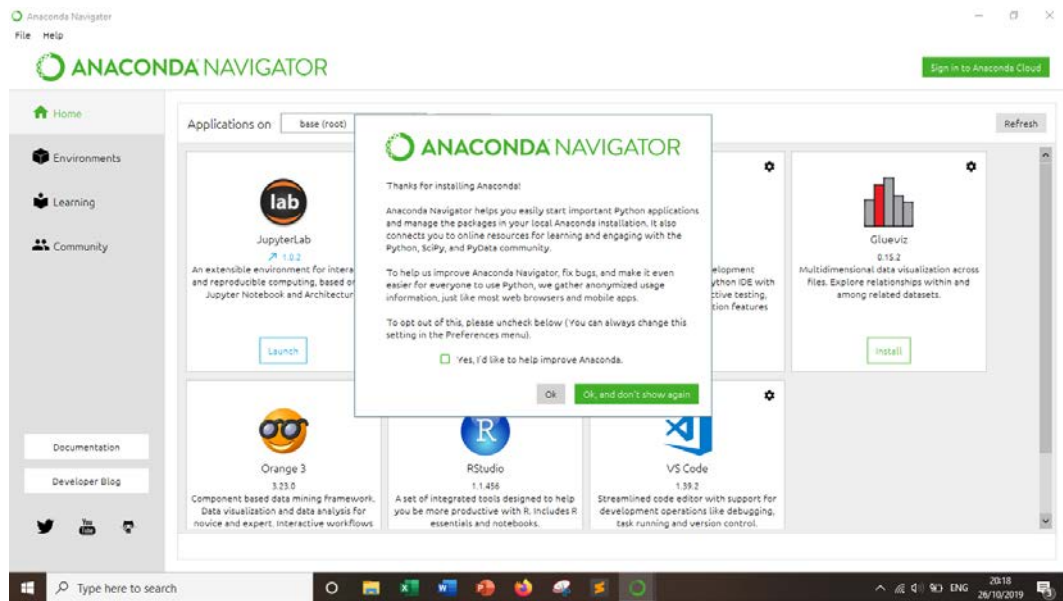
DOWNGRADE NETWORKX



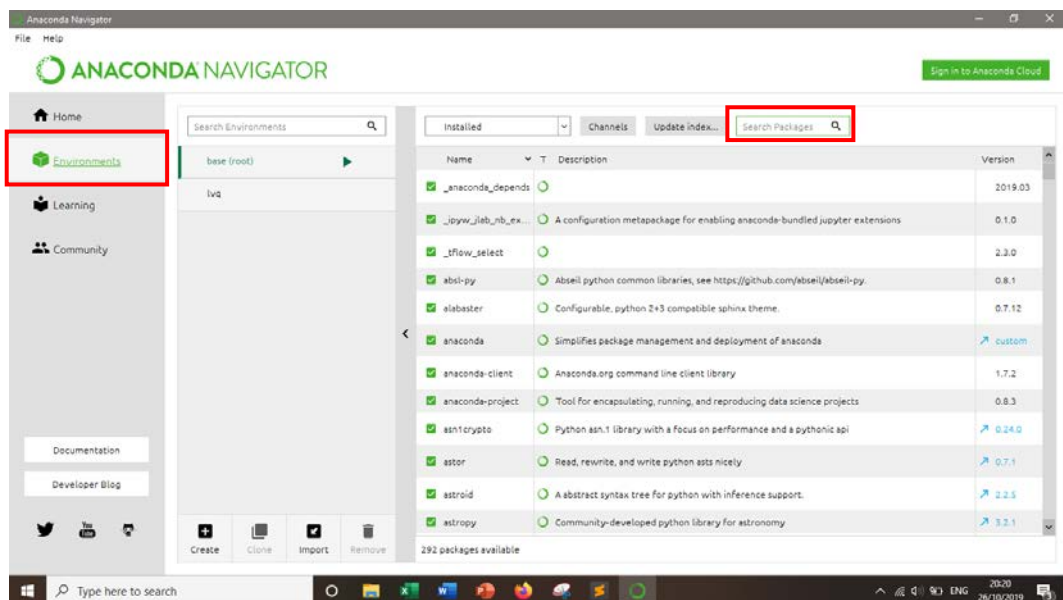
Agar fungsi **networx** dapat berjalan beriringan dengan scikit-fuzzy, kita perlu melakukan **downgrade** ke versi 2.2. Caranya: buka aplikasi **Anaconda Navigator (Anaconda)**.



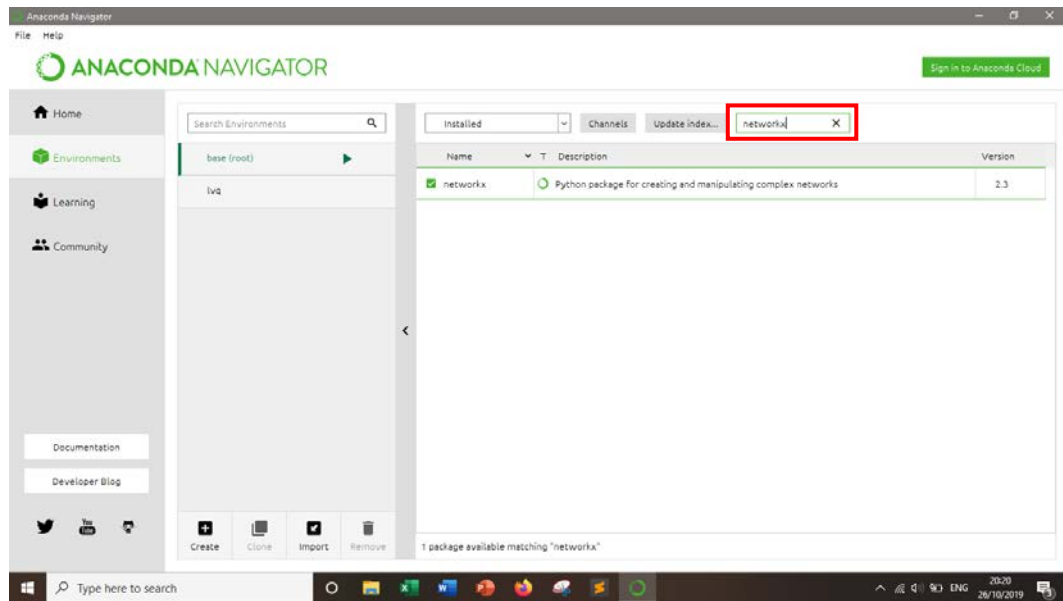
Tunggu proses **loading** aplikasi hingga selesai.



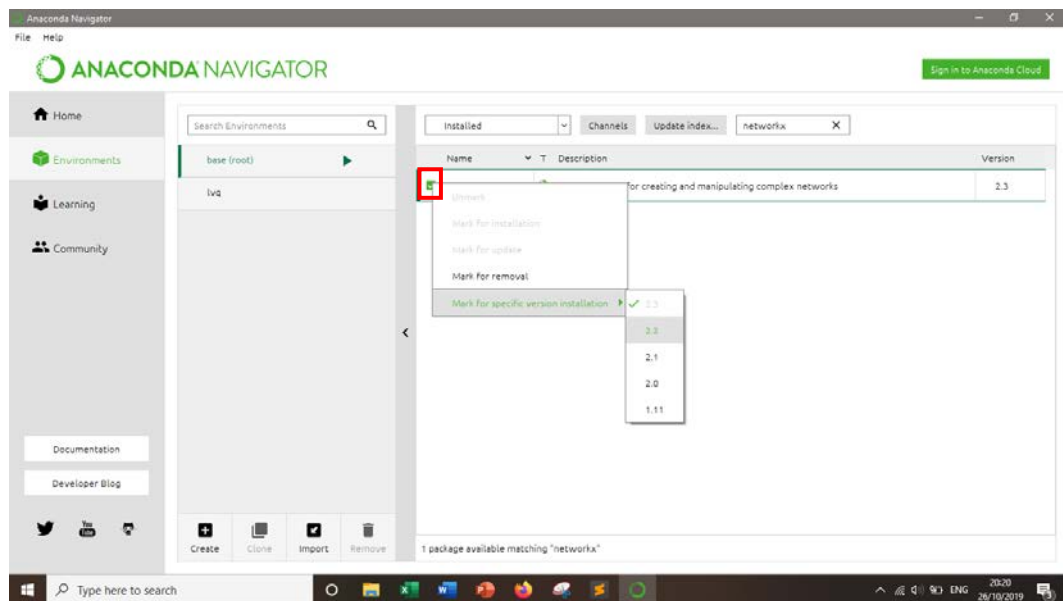
Tekan **OK** pada jendela yang muncul.



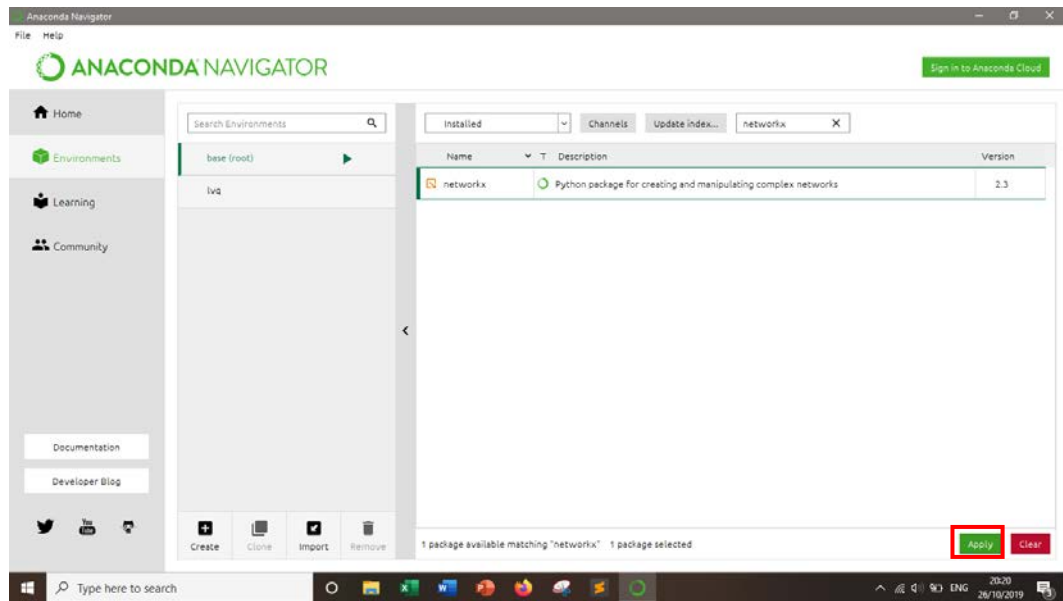
Klik menu **Environments** (pojok kiri), kemudian klik pada kolom **Search Packages**.



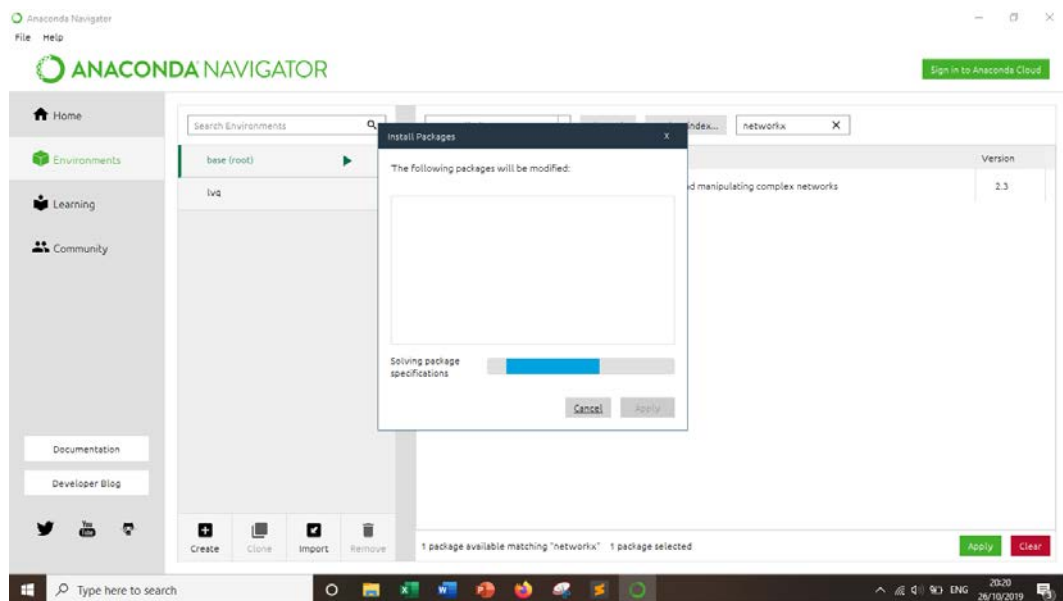
Ketik **networkx** pada kolom **Search Packages**, kemudian tekan Enter.



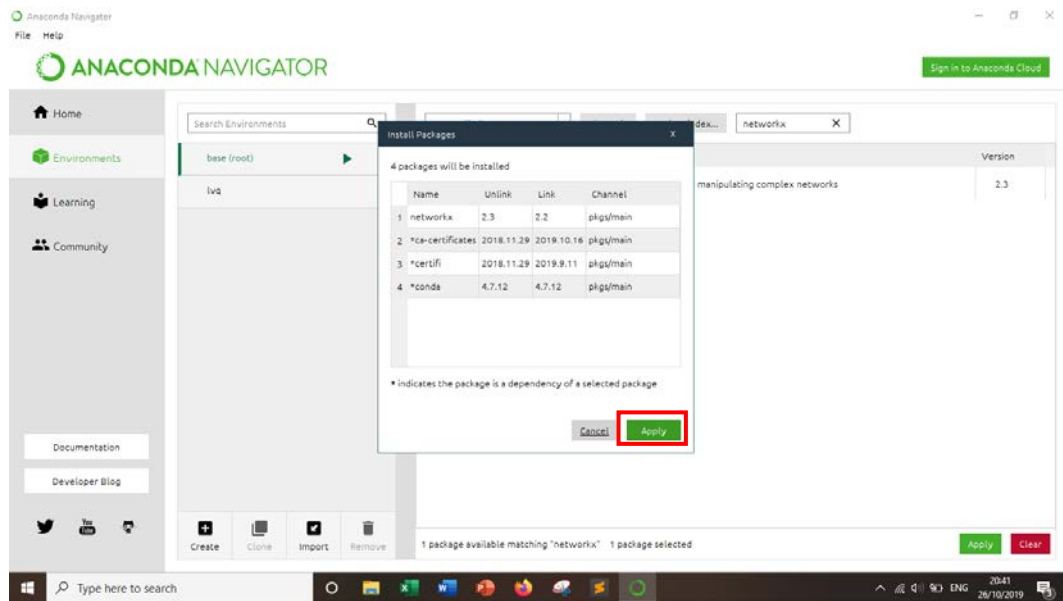
Klik **tanda centang** pada package networkx, kemudian klik **Mark for specific version installation**, lalu klik **2.2**.



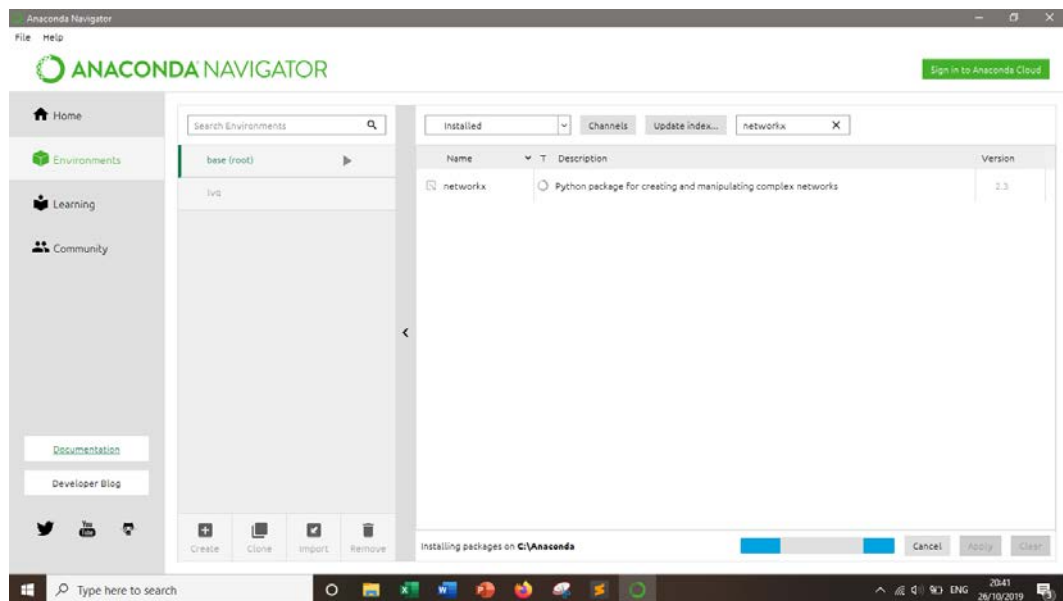
Setelah itu klik tombol **Apply** (pojok kanan bawah).



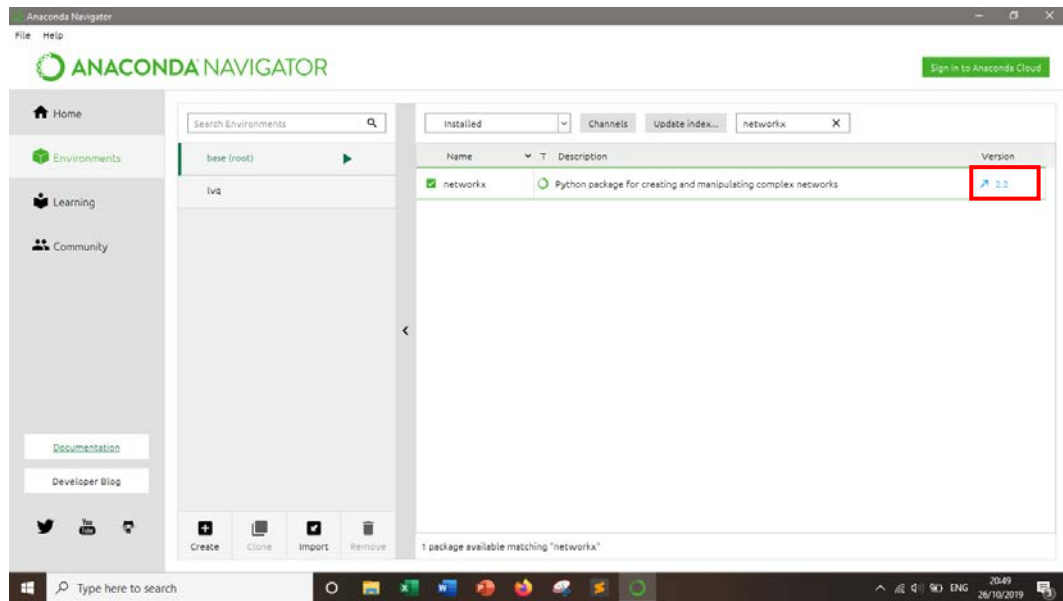
Tunggu proses **loading** hingga selesai.



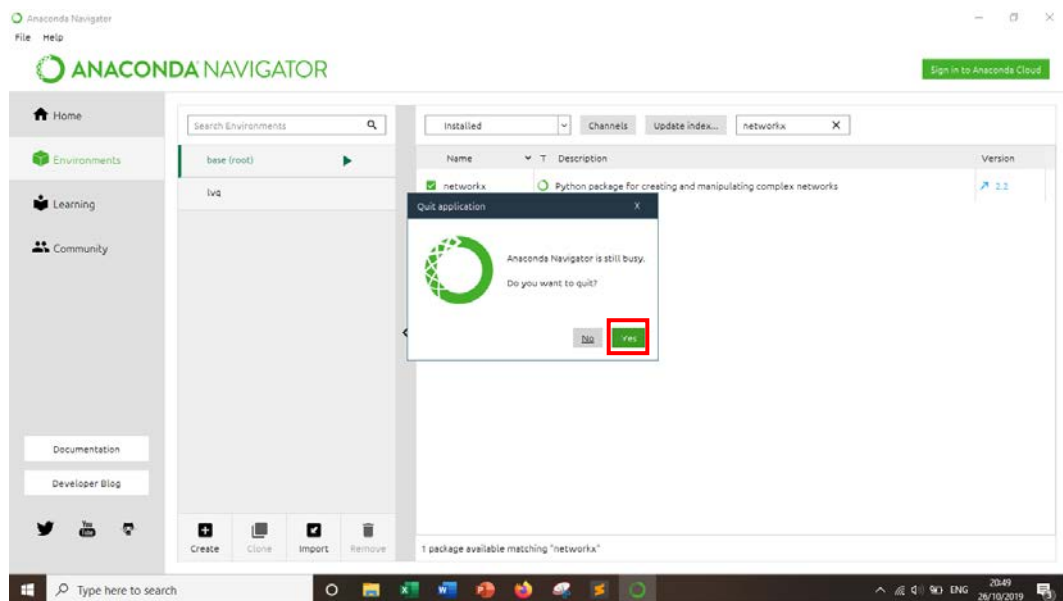
Selanjutnya klik tombol **Apply** pada jendela baru yang muncul.



Tunggu proses **downgrade** hingga selesai (butuh koneksi internet).

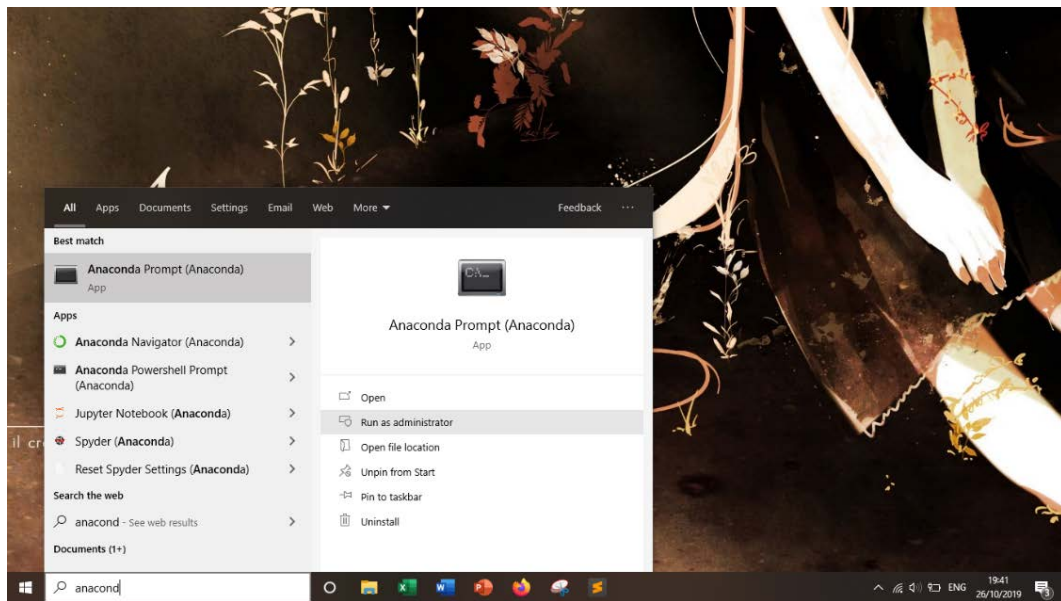


Jika proses downgrade telah **selesai dan sukses**, versi networkx akan berganti menjadi **2.2**.

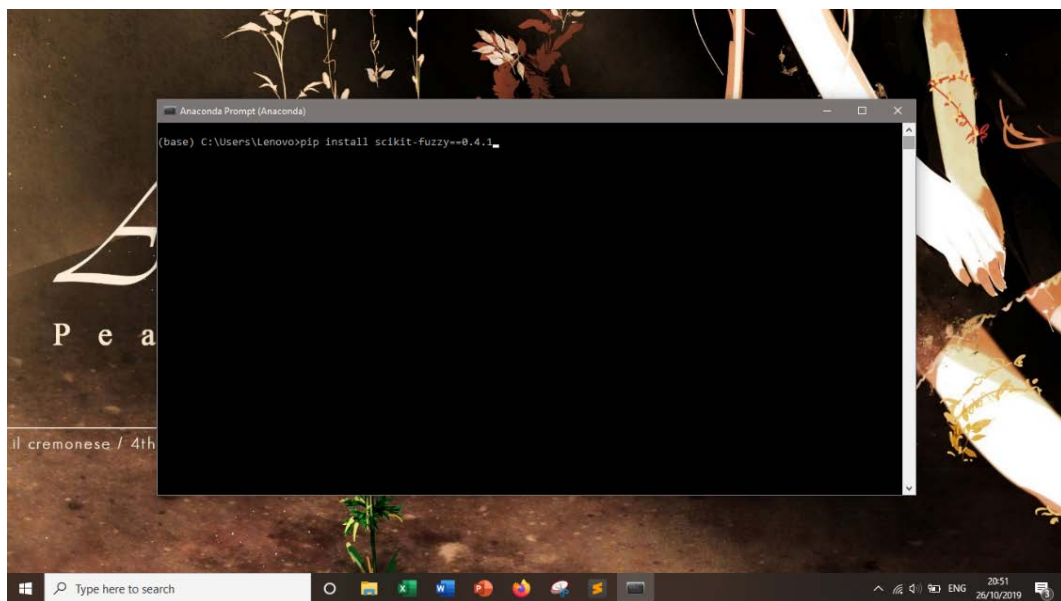


Close aplikasi **Anaconda Navigator (Anaconda)**.

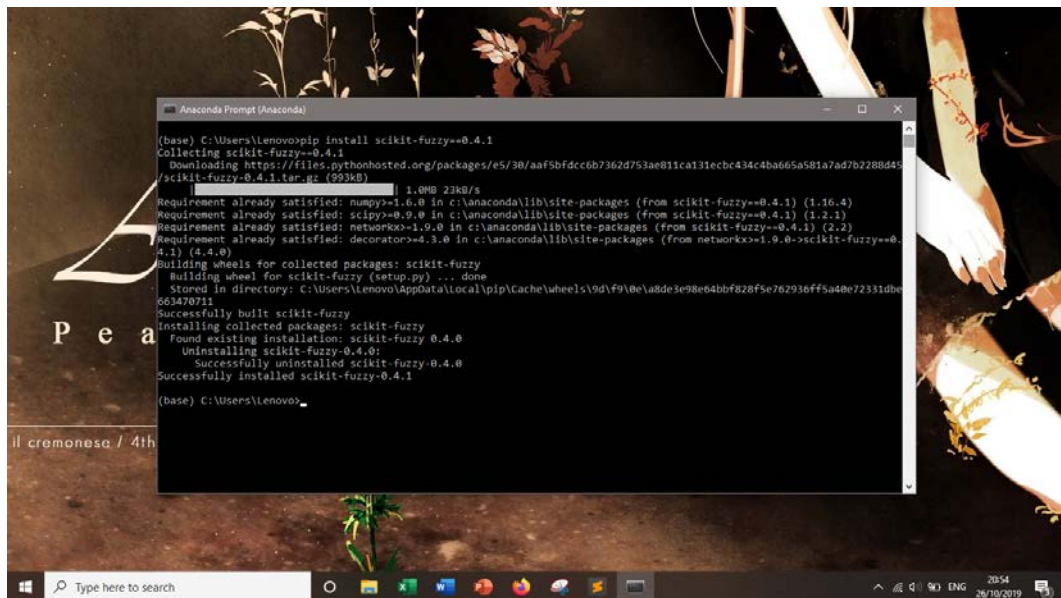
UPGRADE SCIKIT-FUZZY



Sebaliknya, agar scikit-fuzzy dapat berjalan beriringan dengan netwroxx, kita perlu melakukan **upgrade** ke versi 0.4.1. Caranya: buka **Anaconda Prompt** (Run as Administrator).

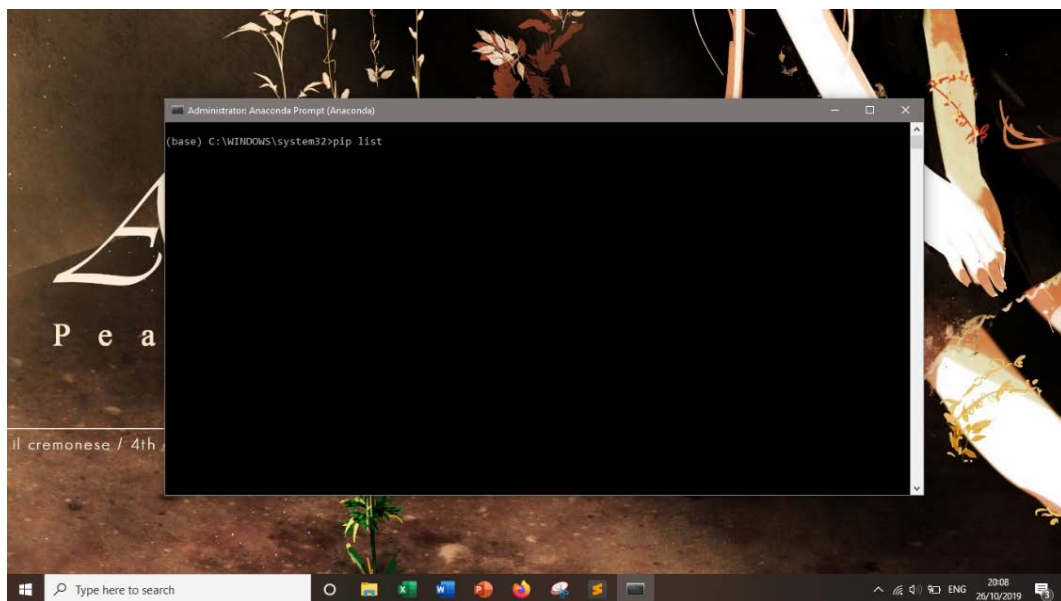


Kemudian ketik **pip install scikit-fuzzy==0.4.1** (dengan 2 simbol sama dengan), lalu tekan Enter.



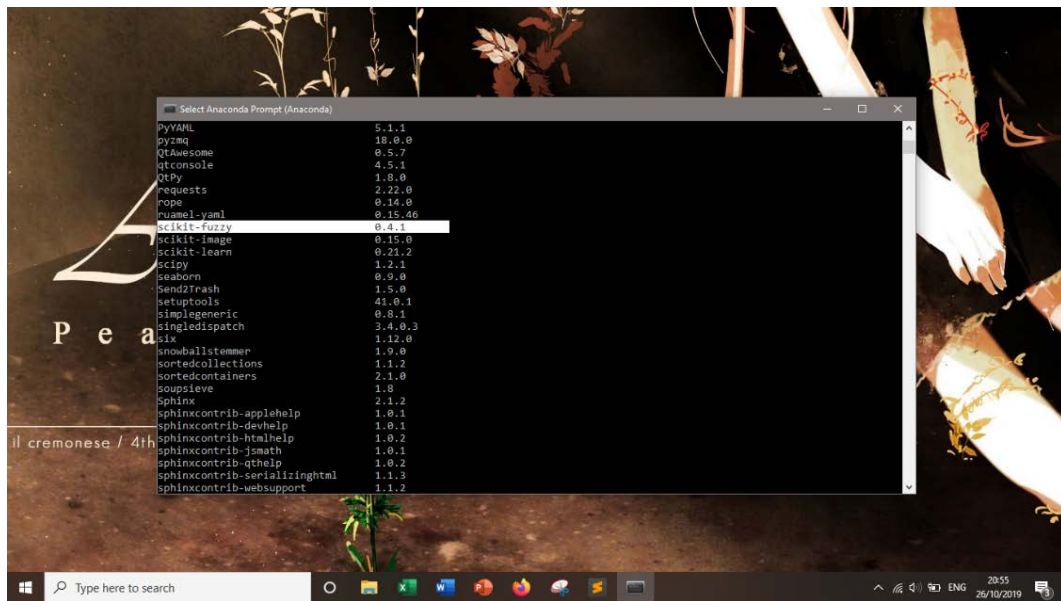
```
(base) C:\Users\lenovo>pip install scikit-fuzzy==0.4.1
Collecting scikit-fuzzy==0.4.1
  Downloading https://files.pythonhosted.org/packages/e5/30/aaf5bf4cc6b7362d753ae811ca131ecbc434c4ba665a581a7ad7b2288d45
/scikit-fuzzy-0.4.1.tar.gz (993kB)
    | 1.0MB 23kB/s
Requirement already satisfied: numpy>=1.6.0 in c:\anaconda\lib\site-packages (from scikit-fuzzy==0.4.1) (1.16.4)
Requirement already satisfied: scipy>=0.9.0 in c:\anaconda\lib\site-packages (from scikit-fuzzy==0.4.1) (1.2.1)
Requirement already satisfied: networkx>=1.9.0 in c:\anaconda\lib\site-packages (from scikit-fuzzy==0.4.1) (2.2)
Requirement already satisfied: decorator>=4.3.0 in c:\anaconda\lib\site-packages (from networkx>=1.9.0->scikit-fuzzy==0.4.1) (4.4.0)
Building wheels for collected packages: scikit-fuzzy
  Building wheel for scikit-fuzzy (setup.py) ... done
  Stored in directory: C:\Users\lenovo\AppData\Local\pip\Cache\wheels\9d\1f\9b\ea8de3e98e64bbf828f5e762936ff5a48e72331db
663470711
Successfully built scikit-fuzzy
Installing collected packages: scikit-fuzzy
  Found existing installation: scikit-fuzzy 0.4.0
    Uninstalling scikit-fuzzy-0.4.0:
      Successfully uninstalled scikit-fuzzy-0.4.0
  Successfully installed scikit-fuzzy-0.4.1
(base) C:\Users\lenovo>
```

Tunggu proses **download** dan **instalasi** hingga selesai (butuh koneksi internet).



```
(base) C:\WINDOWS\system32>pip list
```

Jika telah selesai, check versi scikit-fuzzy dengan perintah **pip list**, lalu tekan Enter.



Jika proses upgrade **sukses dan berhasil**, versi scikit fuzzy akan menjadi 0.4.1.