LAPORAN PRAKTIKUM 1

PENGOLAHAN CITRA DIGITAL

INSTALASI TOOLS



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Kelas : D4RPL.3

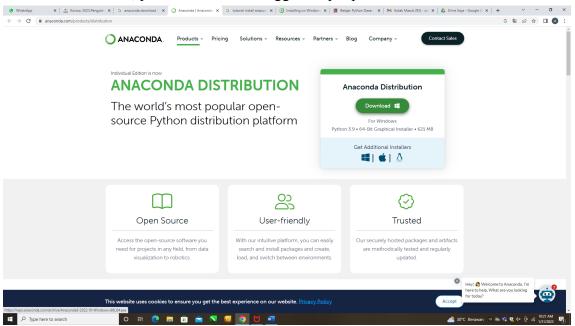
Mata Kuliah : Pengolahan Citra Digital

Tanggal Praktikum: 31 Januari 2023

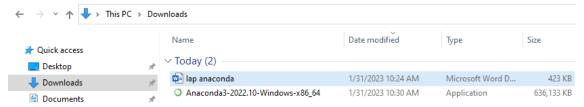
PROGRAM STUDI REKAYASA PERANGKAT LUNAK JURUSAN TEKNIK INFORMATIKA POLITEKNIK NEGERI INDRAMAYU

2023

1. Pertama, akses halaman resmi Anaconda di https://www.anaconda.com/products/distribution untuk download installer for windows. Kemudian, pilih **Download**. Tunggu sampai proses download selesai.



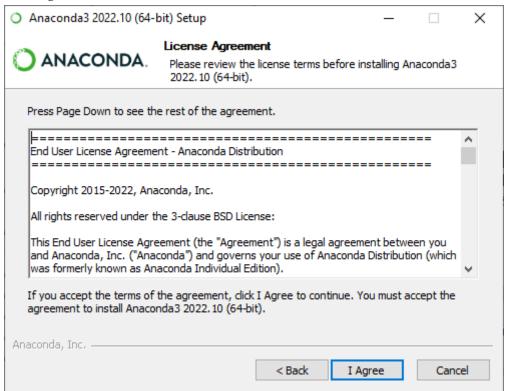
2. Selanjutnya, buka *file manager* dan *folder download*. kemudian *double-click file* anaconda *installer* yang telah di-*download*.



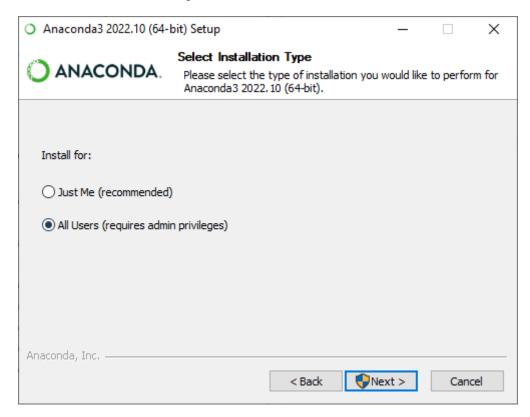
3. Pilih *Next*



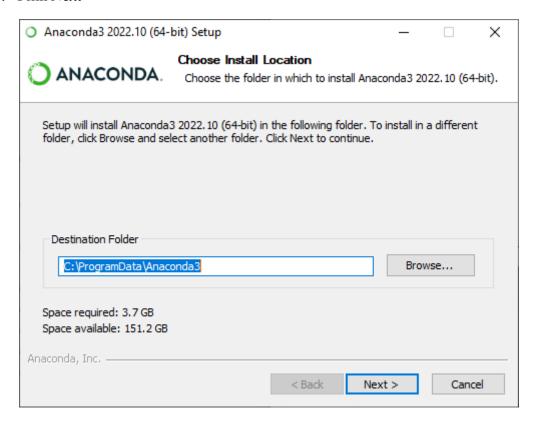
4. Pilih I Agree



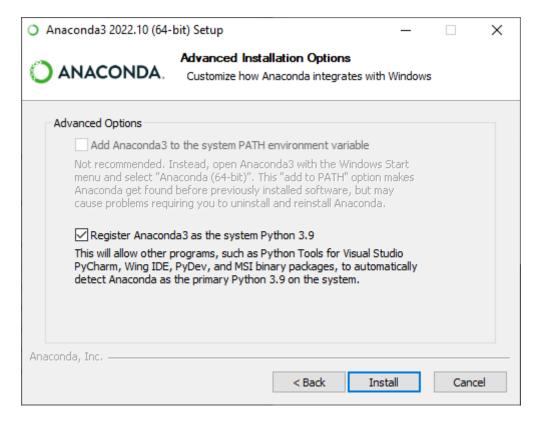
5. Pilih *All Users*, kemudian pilih *Next*



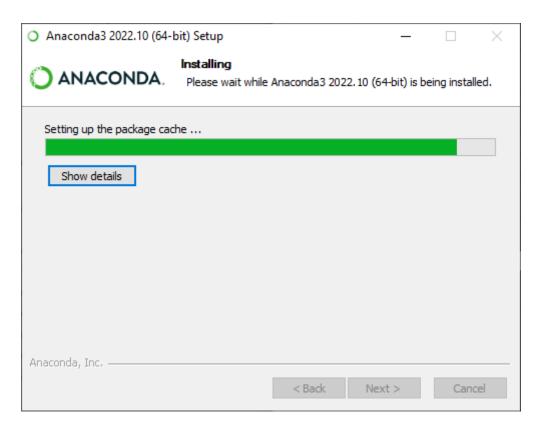
6. Pilih Next



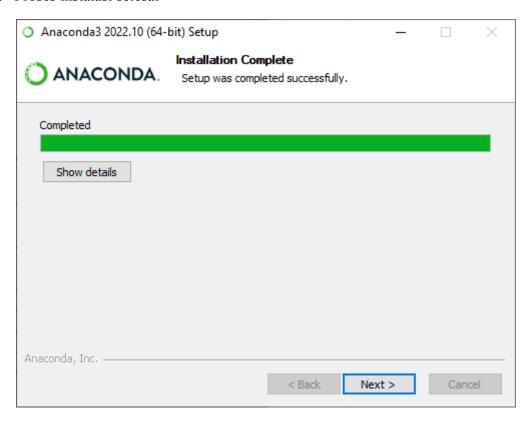
7. Pilih *Install*



8. Tunggu sampai proses instalasi selesai



9. Proses instalasi selesai



10. Buka **Anaconda Prompt,** kemudian lakukan beberapa konfigurasi sebagai berikut:

- conda env list
- conda update conda

• conda create –name adinda –clone base

```
Administrator Anaconda Prompt (Anaconda3) - jupyter-lab

conda-script.py create: error: one of the arguments -n/--name -p/--prefix is required

(base) C:\Windows\system32\conda create --name adinda --clone base

Source: C:\ProgramData\Anaconda3\envs\adinda
Destination: C:\ProgramData\Anaconda3\envs\adinda
The following packages cannot be cloned out of the root environment:
- defaults/win-64::conda-23.1.0-py39haa95532_0
- defaults/win-64::conda-bulld-3.22.0-py39haa95532_0
- defaults/win-64::conda-env-2.6.0-haa95532_1
- defaults/win-64::navigator-updater-0.3.0-py39haa95532_0
- defaults/win-64::navigator-updater-0.3.0-py39haa95532_0
- defaults/win-64::navigator-2.3.1-py39haa95532_0
- defaults/win-64::console_shortcut-0.1.1-4
- defaults/win-64::powershell_shortcut-0.0.1-3
Packages: 390
Files: 8

Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Verifying transaction: done
Executing transaction: done
Werifying transaction: done
Werifying transaction: done
Mindows 64-bit packages of scikit-learn can be accelerated using scikit-learn-intelex.
More details are available here: https://intel.github.io/scikit-learn-intelex
```

conda activate adinda

```
Administrator.Anaconda Prompt (Anaconda3)-jupyter-lab

(base) C:\Windows\system32>conda activate adinda

(adinda) C:\Windows\system32>jupyter -lab

usage: jupyter [-h] [--version] [--config-dir] [--data-dir] [--runtime-dir] [--paths] [--json] [--debug] [subcommand]

Jupyter: Interactive Computing

positional arguments:
    -h, --help show this help message and exit
    --version show the versions of core jupyter packages and exit
    --version show Jupyter config dir
    --data-dir show Jupyter config dir
    --paths show all Jupyter paths. Add --json for machine-readable format.
    --json output paths as machine-readable json
    --debug output debug information about paths

Available subcommands: bundlerextension console dejavu execute kernel kernelspec lab labextension labhub migrate
nbclassic nbconvert nbextension notebook qtconsole run script server serverextension troubleshoot trust

Please specify a subcommand or one of the optional arguments.

(adinda) C:\Windows\system32>jupyter-lab
Note: NumExpr detected 12 cores but "NUMEXPR_MAX_THREADS" not set, so enforcing safe limit of 8.

NumExpr defeaulting to 8 threads.

[I 2023-01-31 10:53:31.276 ServerApp] jupyterlab | extension was successfully linked.
```

- Pindah direktori menuju D:\, kemudian buat folder dengan nama **praktikum adinda** dan masuk ke folder tersebut.
- jupyter-lab, maka akan otomatis membuka browser

```
Administrator. Anaconda Prompt (Anaconda3) - jupyter-lab

(base) C:\Windows\system32>conda activate adinda

(adinda) C:\Windows\system32>jupyter -lab
usage: jupyter [-h] [--version] [--config-dir] [--data-dir] [--runtime-dir] [--paths] [--json] [--debug] [subcommand]

Jupyter: Interactive Computing
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Available subcommands: bundlerextension console dejavu execute kernel kernelspec lab labextension labhub migrate
nbclassic nbconvert nbextension notebook qtconsole run script server serverextension troubleshoot trust

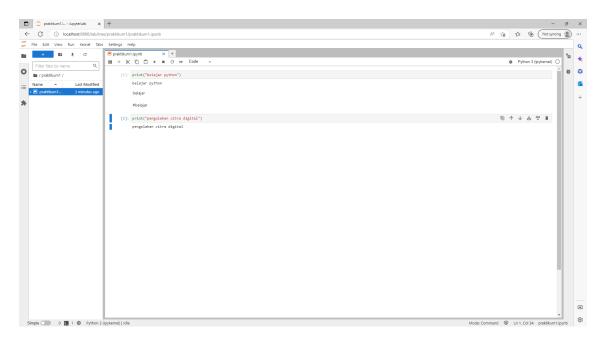
Please specify a subcommand or one of the optional arguments.

(adinda) C:\Windows\system32>jupyter-lab
Note: NumExpr detected 12 cores but "NUMEXPR_MAX_THREADS" not set, so enforcing safe limit of 8.

Numexpr defaulting to 8 threads.

[I 2023-01-31 10:53:31.276 ServerApp] jupyterlab | extension was successfully linked.
```

11. Coba script python menggunakan jupyter notebook



12. Instalasi opencv

• conda update -all

```
Administrator Anaconda Prompt (Anaconda3) - conda deactivate - conda update --all - conda install - conda-forge opency

(adinda) C:\Windows\system32\conda update --all
Collecting package metadata (current_repodata.json): done
Solving environment:
Warning: 4 possible package resolutions (only showing differing packages):
    defaults/win-64::cython-0.29.28.py39hd77b12b_0, defaults/win-64::dask-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::dask-core-2022.7.0-py39haa95532_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::dask-core-2022.7.0-py39haa95532_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::gensim-4.1.2-py39hd77b12b_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::gensim-4.1.2-py39hd77b12b_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::gensim-4.1.2-py39hd77b12b_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::distributed-2022
```

```
🔳 Administrator: Anaconda Prompt (Anaconda3) - conda deactivate - conda update --all - conda install -c conda-forge opencv
                                                                                                                                                                                                                                                      6.1-py39h2bbff1b_0 --> 6.2-py39h2bbff1b_0
                                                                                                                       6.1-py39h2bbff1b_0 --> 6.2-py39h2bbff1b_0

pkgs/main/noarch::traitlets-5.1.1-pyh~ --> pkgs/main/win-64::traitlets-5.7.1-py39haa95532_0

4.3.0-py39haa95532_0 --> 4.4.0-py39haa95532_0

4.3.0-py39haa95532_0 --> 4.4.0-py39haa95532_0

2022c-h04d1e81_0 --> 2022g-h04d1e81_0

1.26.11-py39haa95532_0 --> 1.26.14-py39haa95532_0

pkgs/main/noarch::werkzeug-2.0.3-pyhd~ --> pkgs/main/win-64::werkzeug-2.2.2-py39haa95532_0

pkgs/main/noarch::xarray-0.20.1-pyhd3~ --> pkgs/main/win-64::xarray-2022.11.0-py39haa95532_0

5.2.6-h8cc25b3_0 --> 5.2.10-h8cc25b3_1

3.8.0-py39haa95532_0 --> 3.11.0-py39haa95532_0

1.2.12-h8cc25b3_3 --> 1.2.13-h8cc25b3_0
          traitlets
       typing-extensions
typing_extensions
tzdata
urllib3
          werkzeug
          xarray
         xz
zipp
zlib
  The following packages will be DOWNGRADED:
                                                                                                                                                                                                                        0.29.32-py39hd77b12b_0 --> 0.29.28-py39hd77b12b_0 2022.7.0-py39haa95532_0 --> 2022.5.0-py39haa95532_0 2022.7.0-py39haa95532_0 --> 2022.5.0-py39haa95532_0 2022.7.0-py39haa95532_0 --> 2022.5.0-py39haa95532_0 2022.7.0-py39haa95532_0 --> 2022.5.0-py39haa95532_0 2022.7.0-py39haa95532_0 2022.7.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha40202.0-py39ha402
         cython
dask
          dask-core
Proceed ([y]/n)? y
Downloading and Extracting Packages
 Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(adinda) C:\Windows\system32>conda install -c conda-forge opencv
```

conda install -c conda-forge opency

```
Administrator: Anaconda Prompt (Anaconda3) - conda deactivate - conda update --all - conda install -c conda-forge opency
                                                                                                                                                                          ×
Executing transaction: don
(adinda) C:\Windows\system32>conda install -c conda-forge opencv
Collecting package metadata (current_repodata.json): done
Solving environment: done
## Package Plan ##
  environment location: C:\ProgramData\Anaconda3\envs\adinda
  added / updated specs:
The following NEW packages will be INSTALLED:
                               conda-forge/win-64::eigen-3.4.0-h2d74725_0
pkgs/main/win-64::libprotobuf-3.20.1-h23ce68f_0
pkgs/main/win-64::opencv-4.6.0-py39h104de81_2
  eigen
libprotobuf
The following packages will be SUPERSEDED by a higher-priority channel:
                               pkgs/main::ca-certificates-2023.01.10$$^{--}$ conda-forge::ca-certificates-2022.12.7-h5b45459_0 pkgs/main/win-64::certifi-2022.12.7-p$$$^{--}$ conda-forge/noarch::certifi-2022.12.7-pyhd8ed1ab_0$$$
  certifi
Proceed ([y]/n)? y
Downloading and Extracting Packages
```

• import cv2, jika instalasi berhasil maka akan tampil [4]

