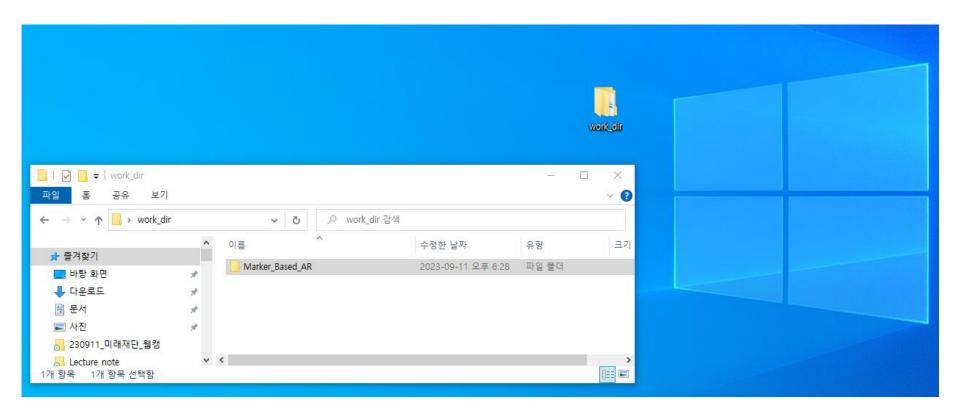
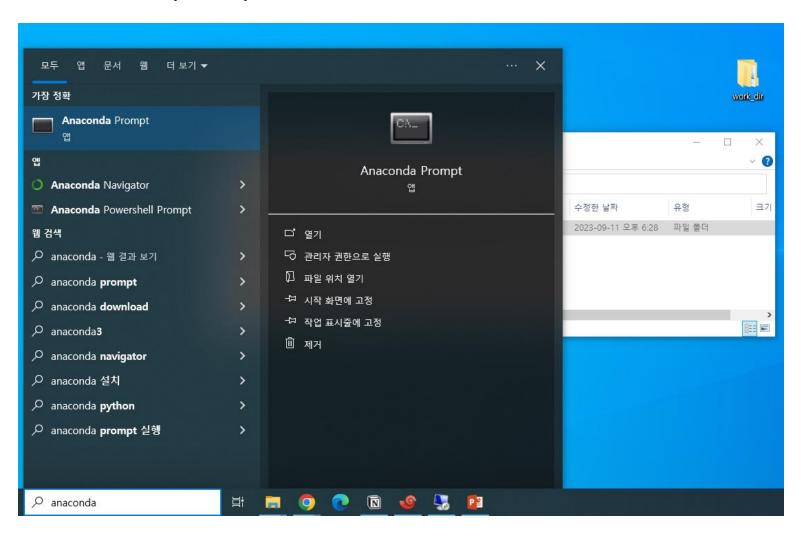
# **EXERCISE\_01:**Marker based AR

- Prepare work place
- Example: Desktop/work\_dir
- Copy the example code to the work\_dir



Run anaconda prompt



- Enter the work place by using "cd" command
- Check the current path

```
Anaconda Prompt
(base) C:\Users\user>cd Desktop\work_dir
(base) C:\Users\user\Desktop\work_dir>
```

- You can enter the work\_dir by using "cd" command
- You can go back by using "cd .." command

- Need to create conda environment for our example code.
- In the prompt, "(base)" means that you are in the base environment
- You can check what environment is prepared ("conda env list")

```
(base) C:\Users\user\Desktop\work_dir>conda env list
# conda environments:
#
base * E:\unaconda3
test_env E:\unaconda3\uenvs\underbest_env
```

Create new conda environment

```
(conda create -n marker_based_ar python=3.9)
```

: option "-n" means name

: option "python=3.9" means installing 3.9 version python

```
(base) C:\Users\user\Desktop\work_dir>conda create -n marker_based_ar python=3.9
Retrieving notices: ...working... done
Collecting package metadata (current_repodata.json): done
Solving environment: done
==> WARNING: A newer version of conda exists. <==
 current version: 23.1.0
  latest version: 23.7.3
 lease update conda by running
   $ conda update -n base -c defaults conda
Or to minimize the number of packages updated during conda update use
    conda install conda=23.7.3
```

Enter y for continuing installing.

```
The following NEW packages will be INSTALLED:
                     pkgs/main/win-64::ca-certificates-2023.08.22-haa95532_0
  ca-certificates
  openss l
                     pkgs/main/win-64::openssl-3.0.10-h2bbff1b_2
                     pkgs/main/win-64::pip-23.2.1-py39haa95532_0
  aia
                     pkgs/main/win-64::pvthon-3.9.17-h1aa4202_0
  python
  setuptools
                     pkgs/main/win-64::setuptools-68.0.0-py39haa95532_0
                     pkgs/main/win-64::sqlite-3.41.2-h2bbff1b_0
  salite
  tzdata
                     pkgs/main/noarch::tzdata-2023c-h04d1e81_0
                     pkgs/main/win-64::vc-14.2-h21ff451_1
  VC.
 vs2015_runtime
                     pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
  whee I
                     pkgs/main/win-64::wheel-0.38.4-py39haa95532_0
Proceed ([v]/n)?
```

To enter the created environment:

```
("conda activate marker_based_ar")
```

 You can see the (base) change into (marker\_based\_ar). Now you are in (markder based ar) environment

- Try to run example code
- Please check the current path
- "python src\ar\_main.py"

```
(marker_based_ar) C:\Users\user\Desktop\work_dir\Marker_Based_AR>python src\ar_main.py
Traceback (most recent call last):
File "C:\Users\user\Desktop\work_dir\Marker_Based_AR\src\ar_main.py", line 12, in <module>
import cv2
ModuleNotFoundError: No module named 'cv2'
(marker_based_ar) C:\Users\user\Desktop\work_dir\Marker_Based_AR>
```

ModuleNotFoundError: No model named 'cv2'

To solve this error, you need to install cv2 module

"pip install opency-python"

Successfully installed

- Run the code again "python src\ar\_main.py"
- Still error
- "conda install matplotlib"

Run the code again "python src\ar\_main.py"

