Lab Session 0

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Install Anaconda

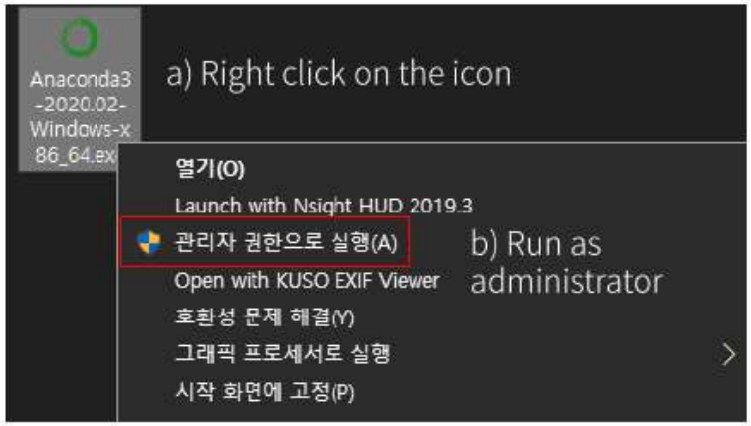
1) Go to https://www.anaconda.com/products/individual

2) Choose your OS

3) Click to save the installer

Install Anaconda

4) Follow the steps below



Install Anaconda

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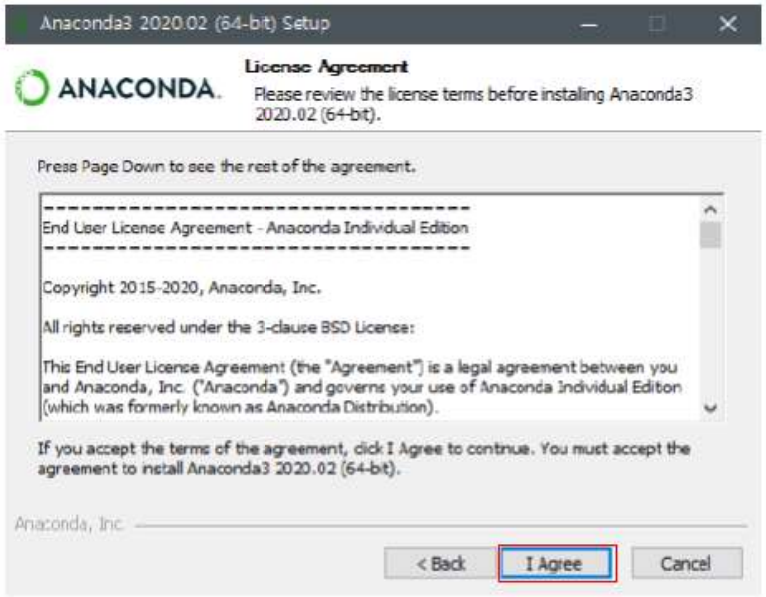

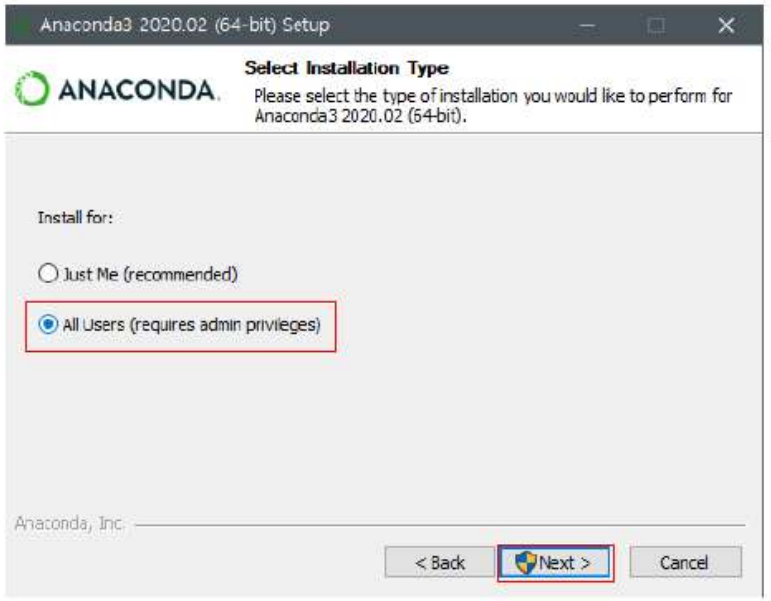

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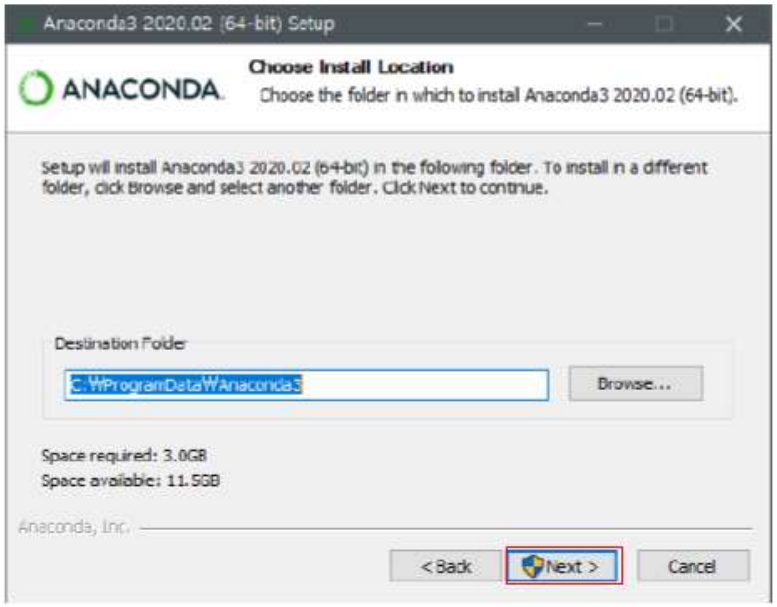
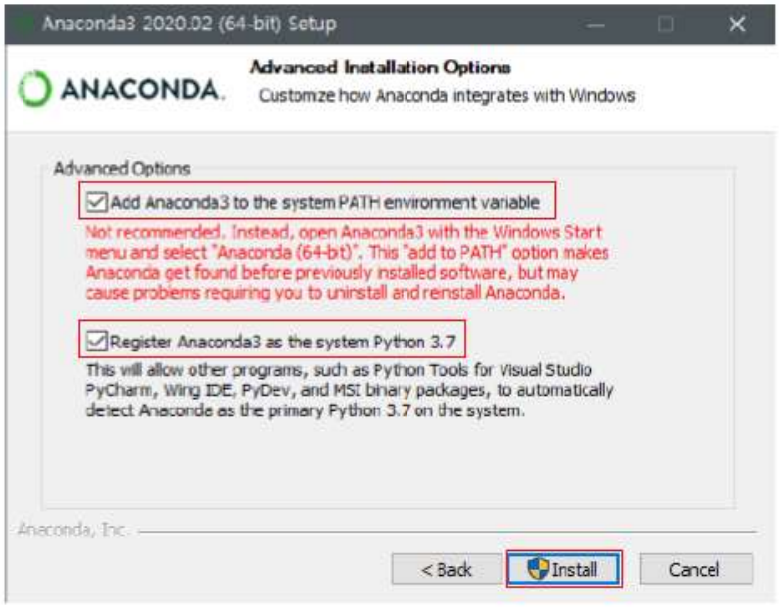




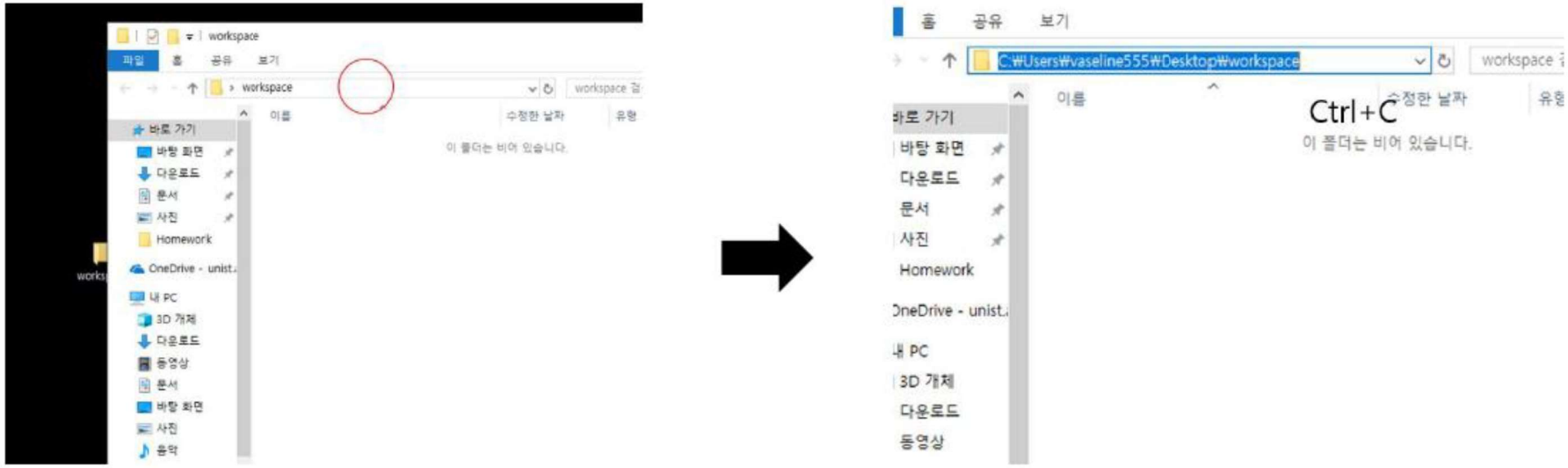
Setup development environment

5) Create an empty folder wherever you want

Setup development environment

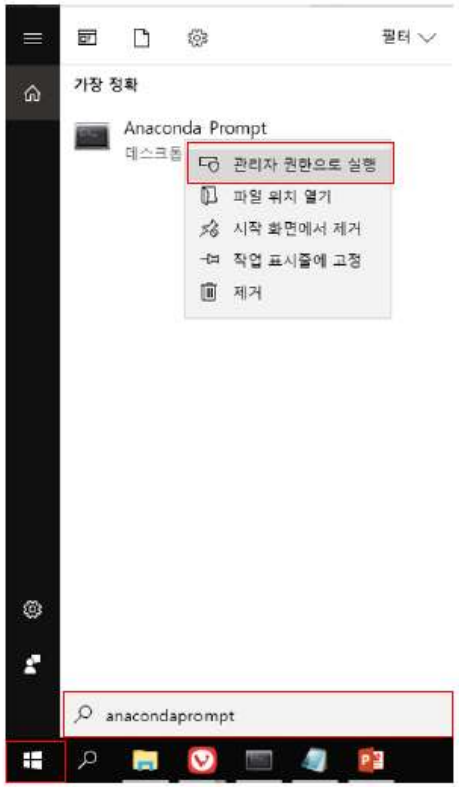
6) Open the folder and click the address bar

7) Copy the path



Setup development environment

8) Find and open ‘Anaconda Prompt’ with Run as administrator (관리자 권한으로 실행) by clicking right mouse button on the icon



Setup development environment

9) Change the current path to your working directory

- Type ‘cd’ (i.e. change directory) command and make one space

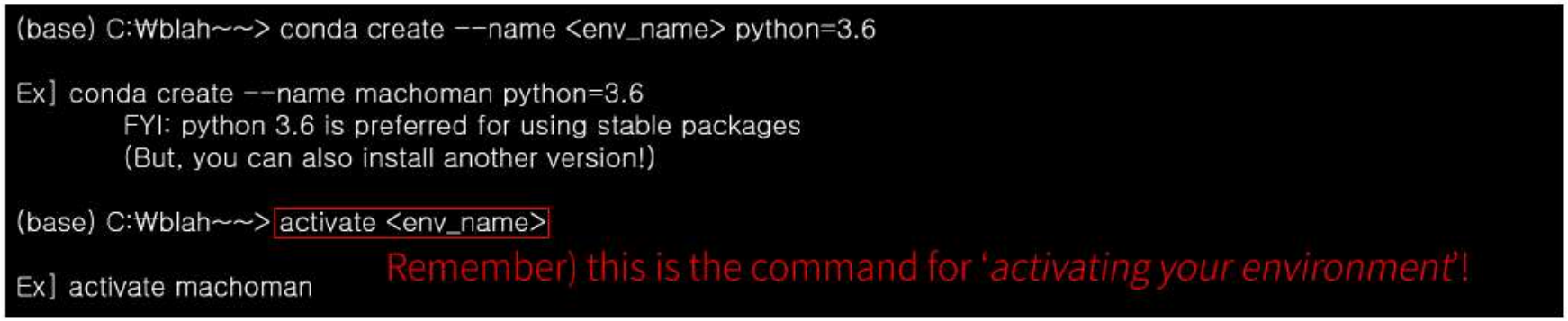
- Click right button; path you copied will automatically be pasted on the command line

- Hit enter, then you can find the path is changed

Setup development environment

10) Type the command below

- Create your own working environment
- *conda create --name environment_name_you_want python=3.6*
- Activate your environment using *activate environment_name_you_want* command



Setup development environment

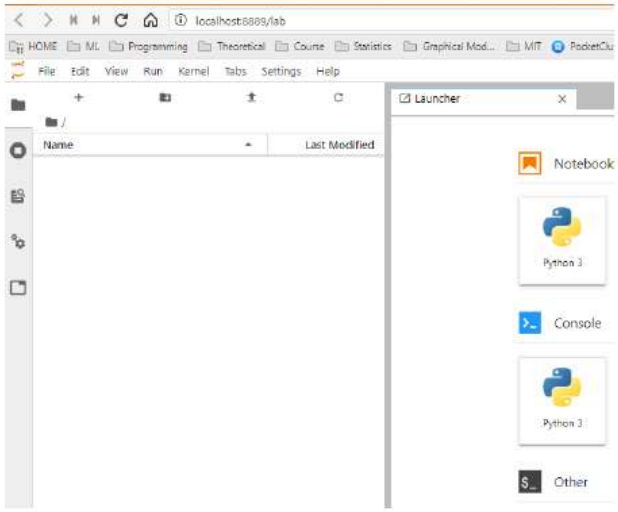
11) After activating environment, install packages using following command

- *pip install numpy pandas jupyterlab cvxpy==1.0.25*
- These are the main packages that you will use for the lab session

Let's start!

12) Close all the windows and remember following steps:

- Run 'Anaconda prompt' with 'Run as administrators'
- Change the directory to your working space using *cd* command
- Activate working environment using *activate environment_name* command
- Type *jupyter lab* command to run a development environment

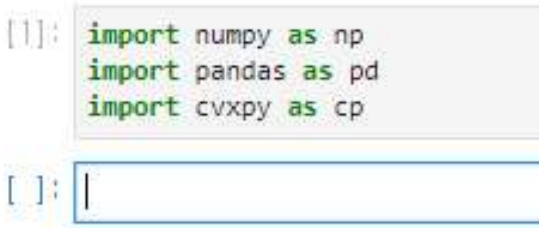


Use jupyter lab

13) Run jupyter lab

- Make a new python notebook

- In the new notebook, type following command and hit 'Shift+Enter' to run your command



(Optional)

Install CPLEX

- CPLEX is a strong optimization solver made by IBM
- It makes the optimization more accurate and faster
- You can install it by typing following commands at 'Anaconda Prompt'

  pip install cplex or *conda install –c ibmdecisionoptimization cplex*

- Check if you have correctly installed it at jupyter lab

```
[1]: import cplex

[2]: cplex.__version__

[2]: '12.10.0.0'

[ ]:
```

Things to do

Execute following commands

- Command 1

```
import cvxpy as cp
print(cp.__version__)
```

- Command 2

```
! conda env list
```

- Command 3

```
print ("Hello, World!")
```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