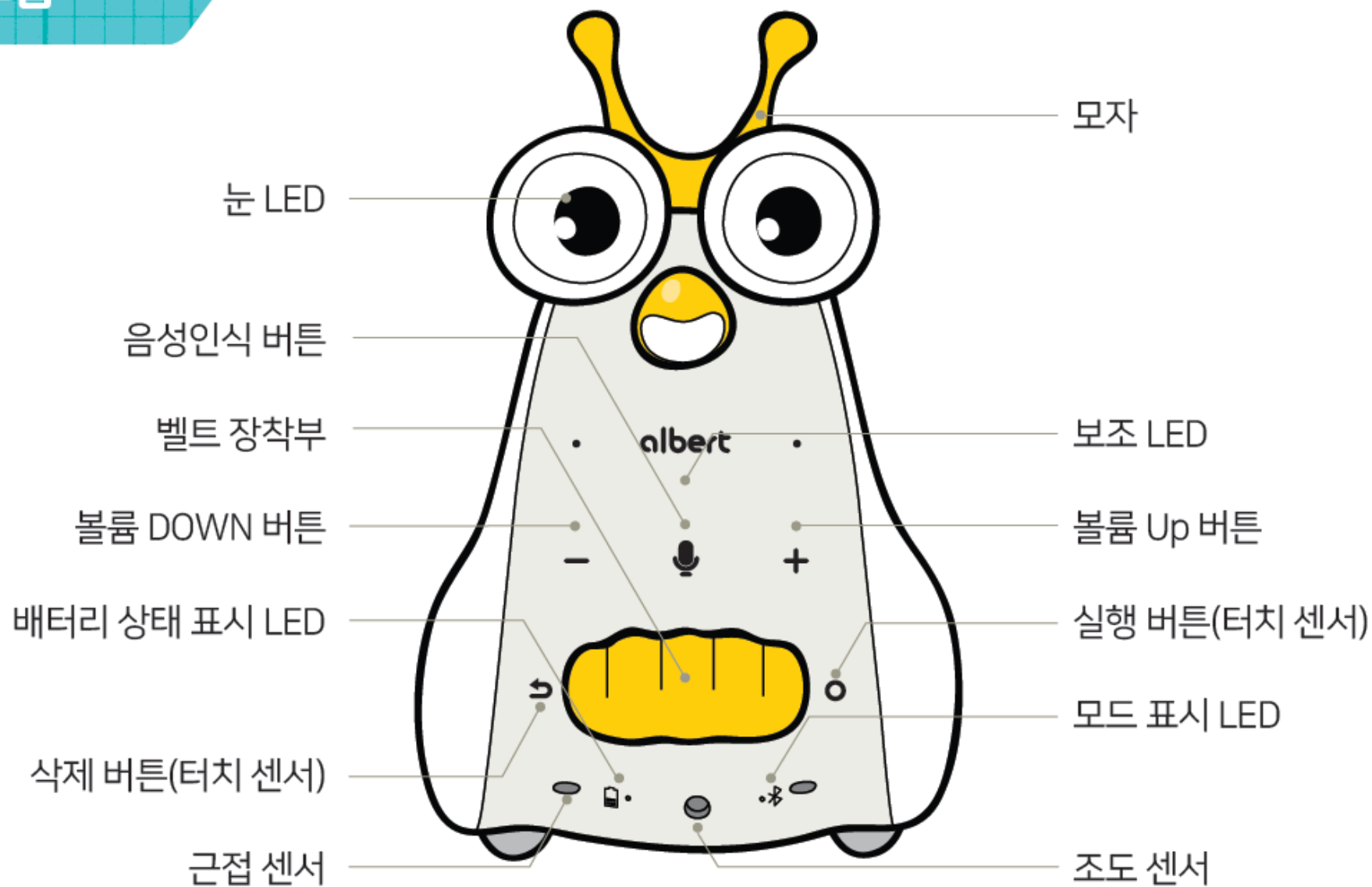


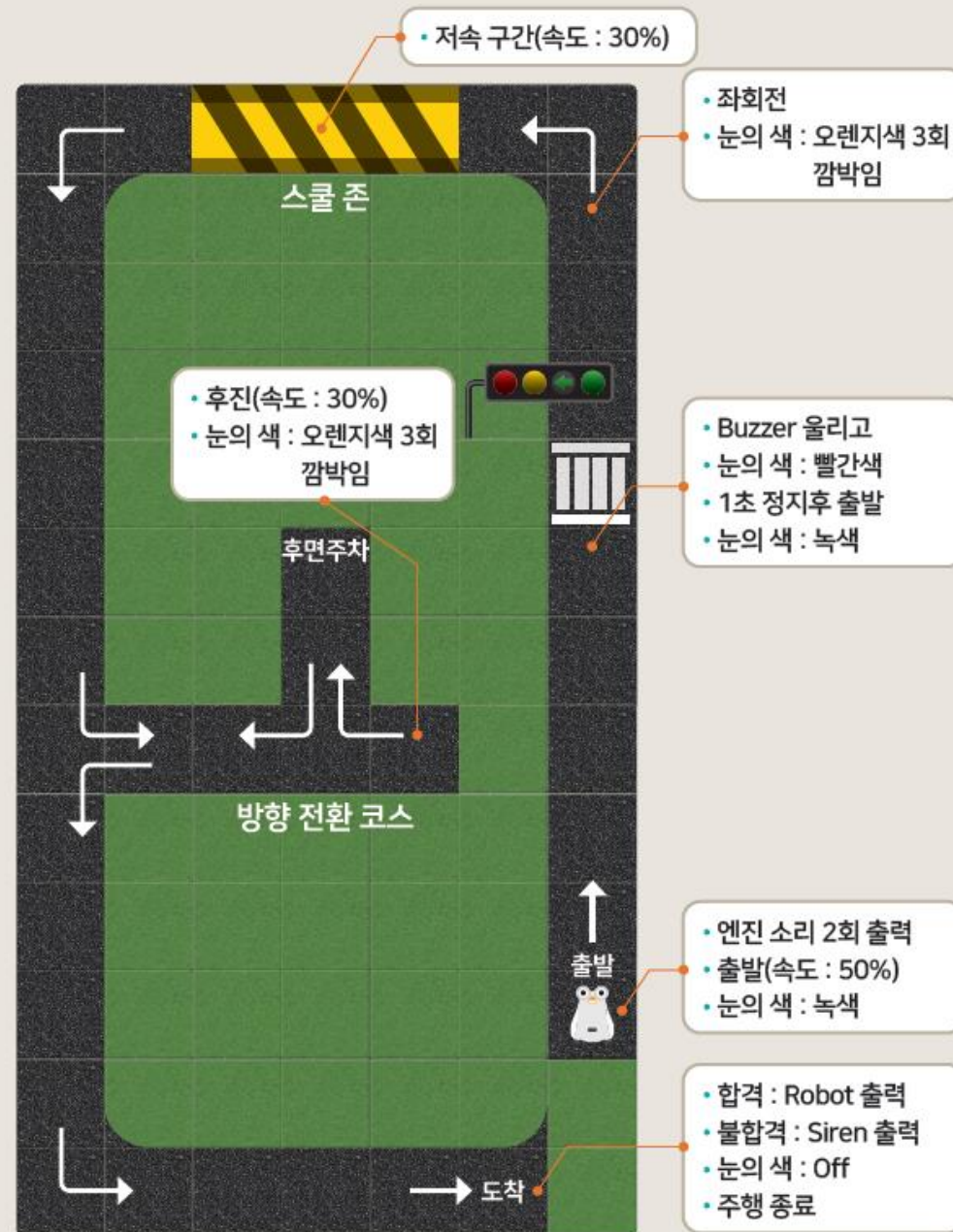


Albert

앞모습

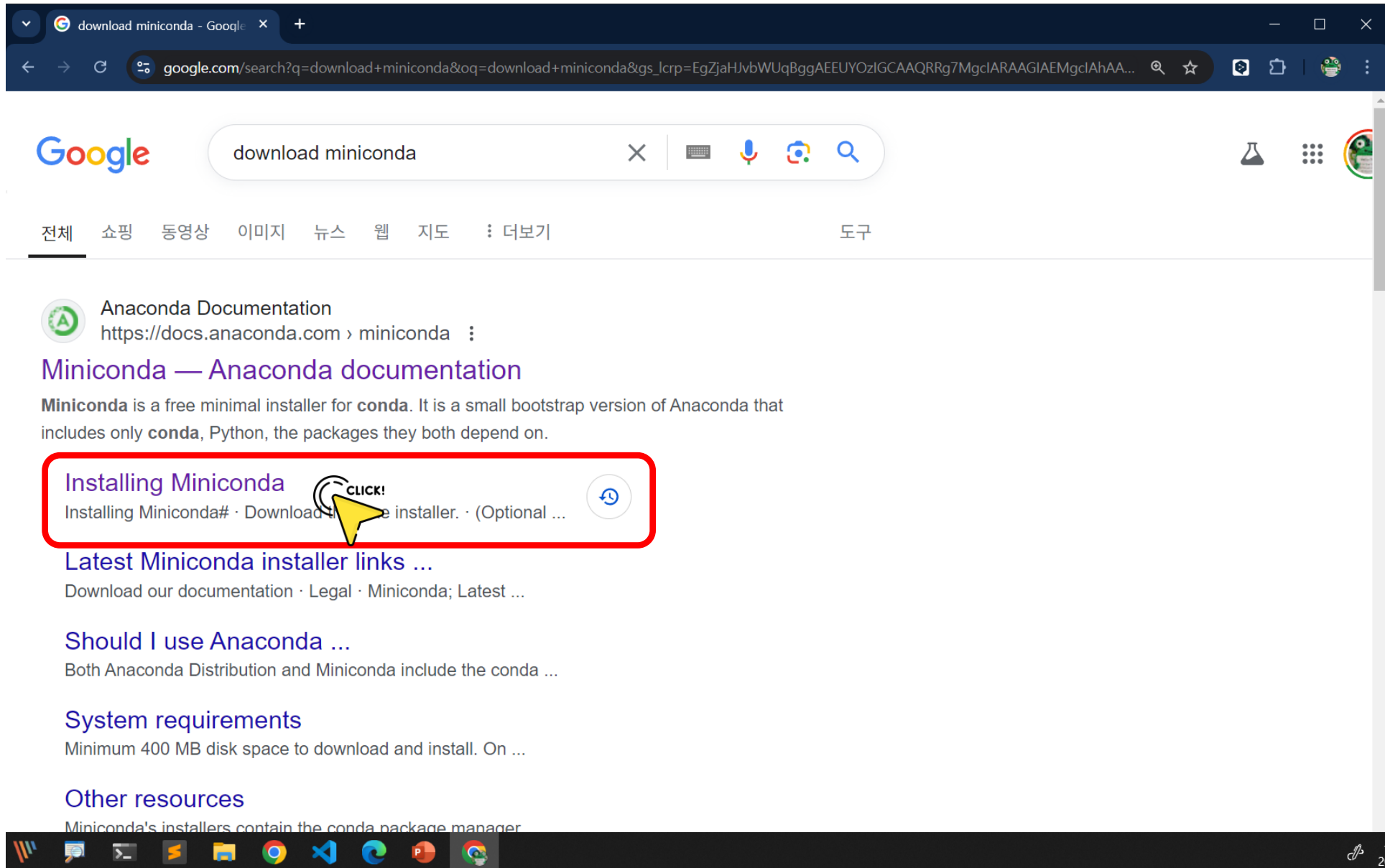


- 알버트 AI 운전면허 기능 시험의 주행 코스에 대하여 알아보자.



Create Virtual Environment

Search Miniconda



Windows graphical installer

macOS graphical installer

Linux installer

1. [Download the .exe installer.](#)



2. (Optional) Verify your installer's SHA-256 checksum. This check proves that the installer you downloaded is the original one.


a. Open PowerShell version 4.0 or later and run the following command:

```
# Replace <FILE_NAME> with the path to your installer  
Get-FileHash <FILE_NAME> -Algorithm SHA256
```

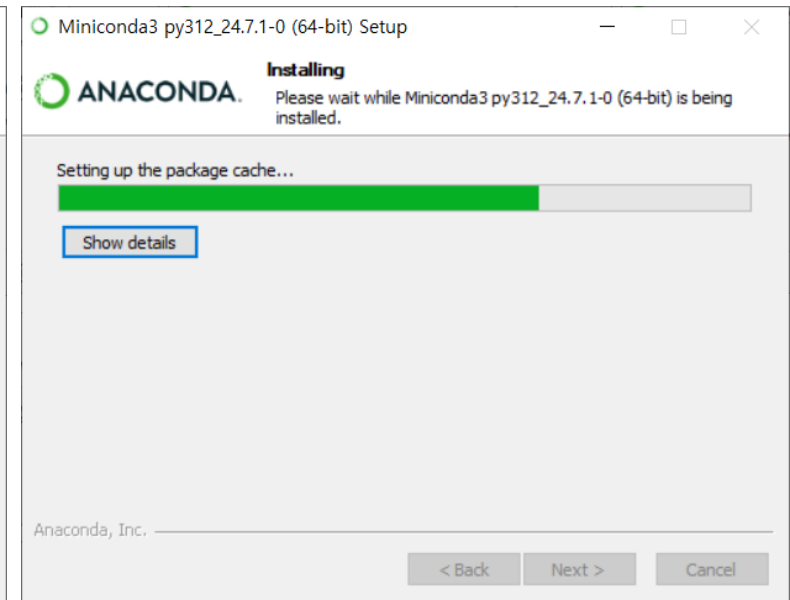
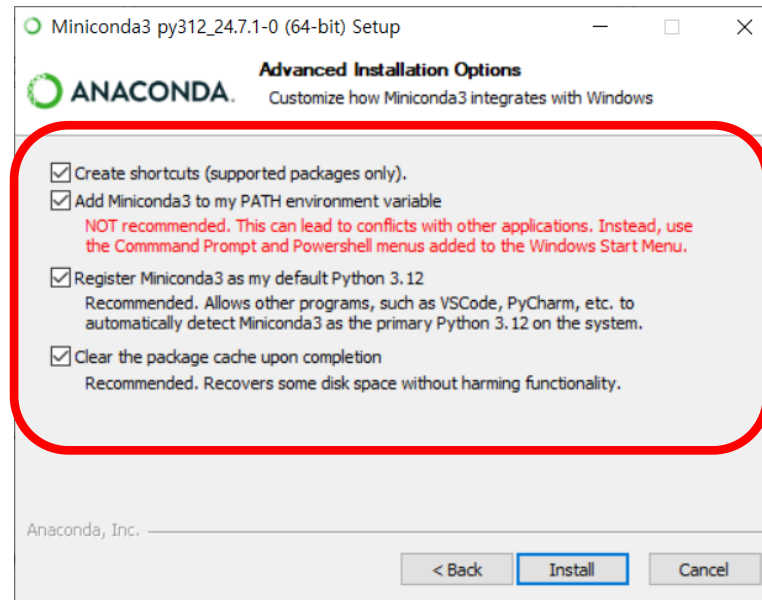
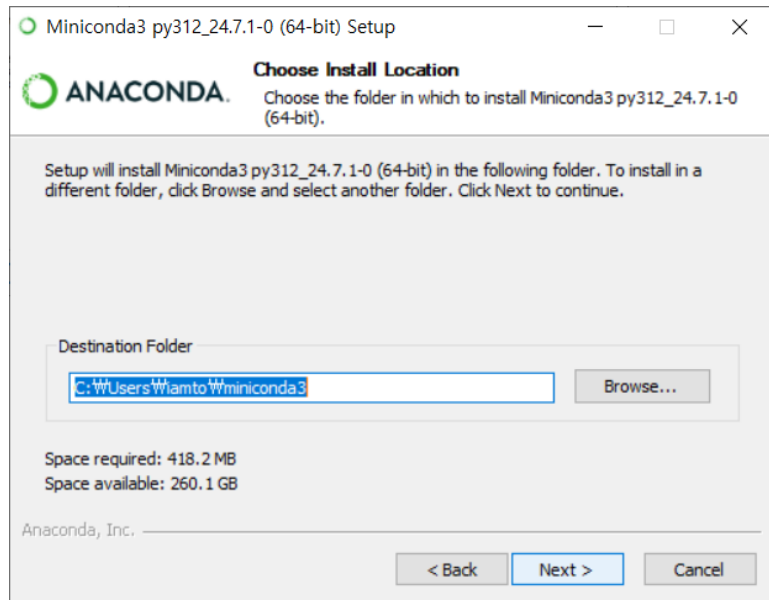
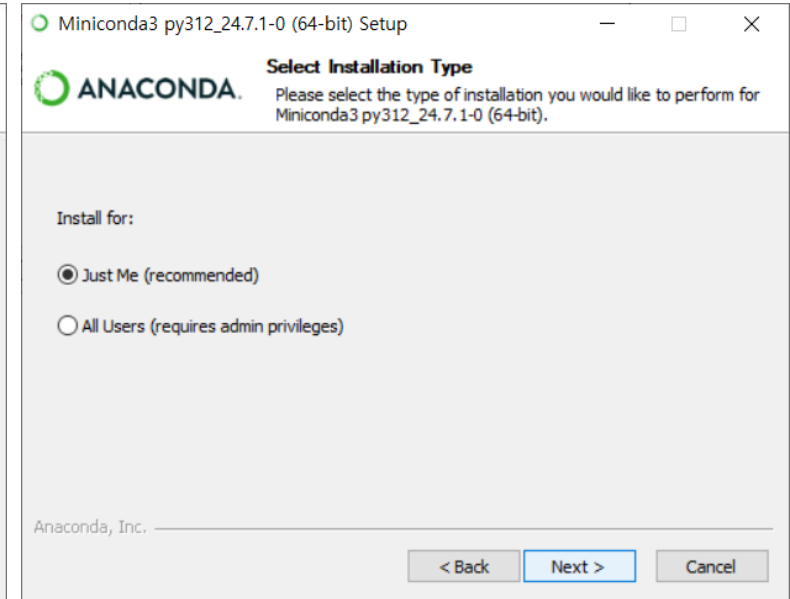
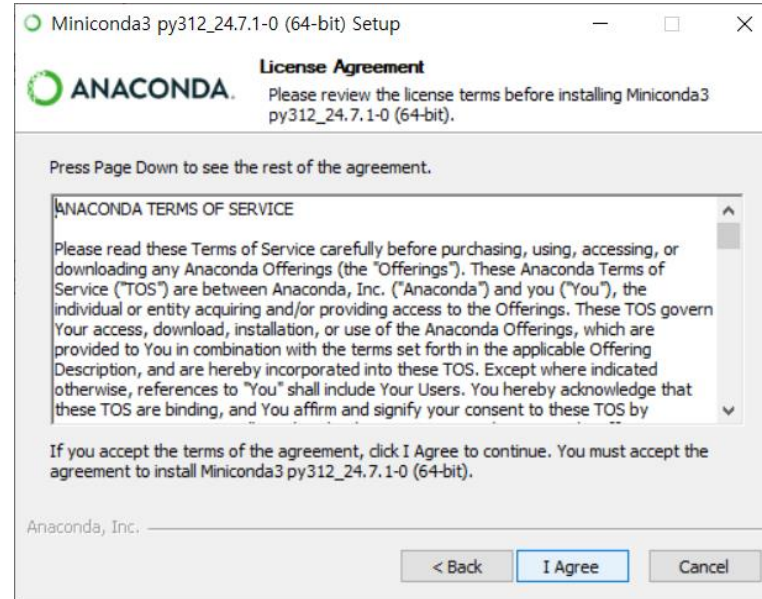
Latest Miniconda installer links

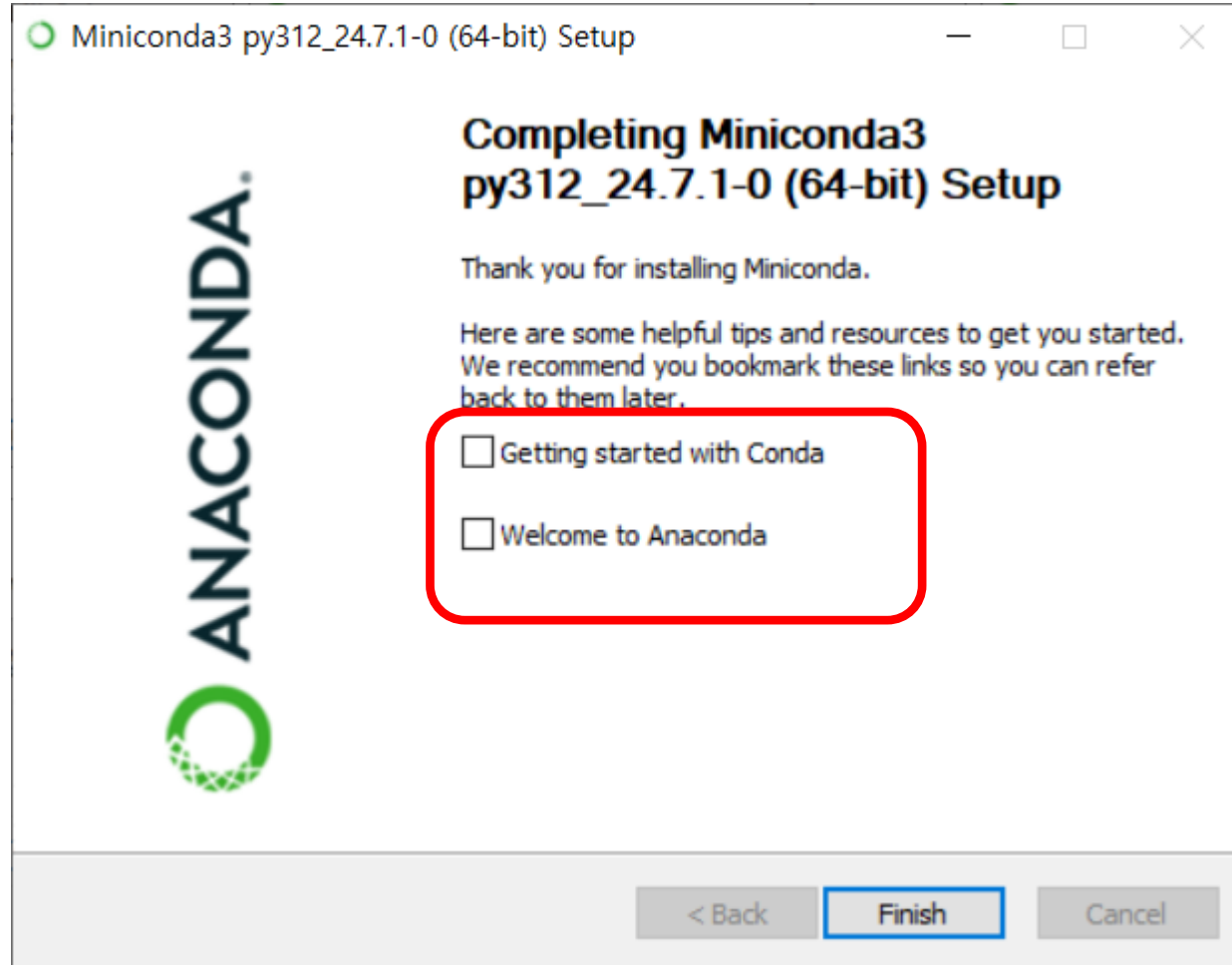
This list of installers is for the latest release of Python: 3.12.4. For installers for older versions of Python, see [Other installer links](#). For an archive of Miniconda versions, see <https://repo.anaconda.com/miniconda/>.

Latest - Conda 24.7.1 Python 3.12.4 released Aug 22, 2024

Platform	Name	SHA256 hash
Windows	Miniconda3 Windows 64-bit 	<code>ff8ab50f0303c7b9097387967ac2a721016d020069187eff4e172fc14930ebb7</code>
macOS	Miniconda3 macOS Intel x86 64-bit bash	<code>5cfb85d81d94dfe3ef3265f2247aef32a35aeb450ea71c3a204cefed384fb87d</code>

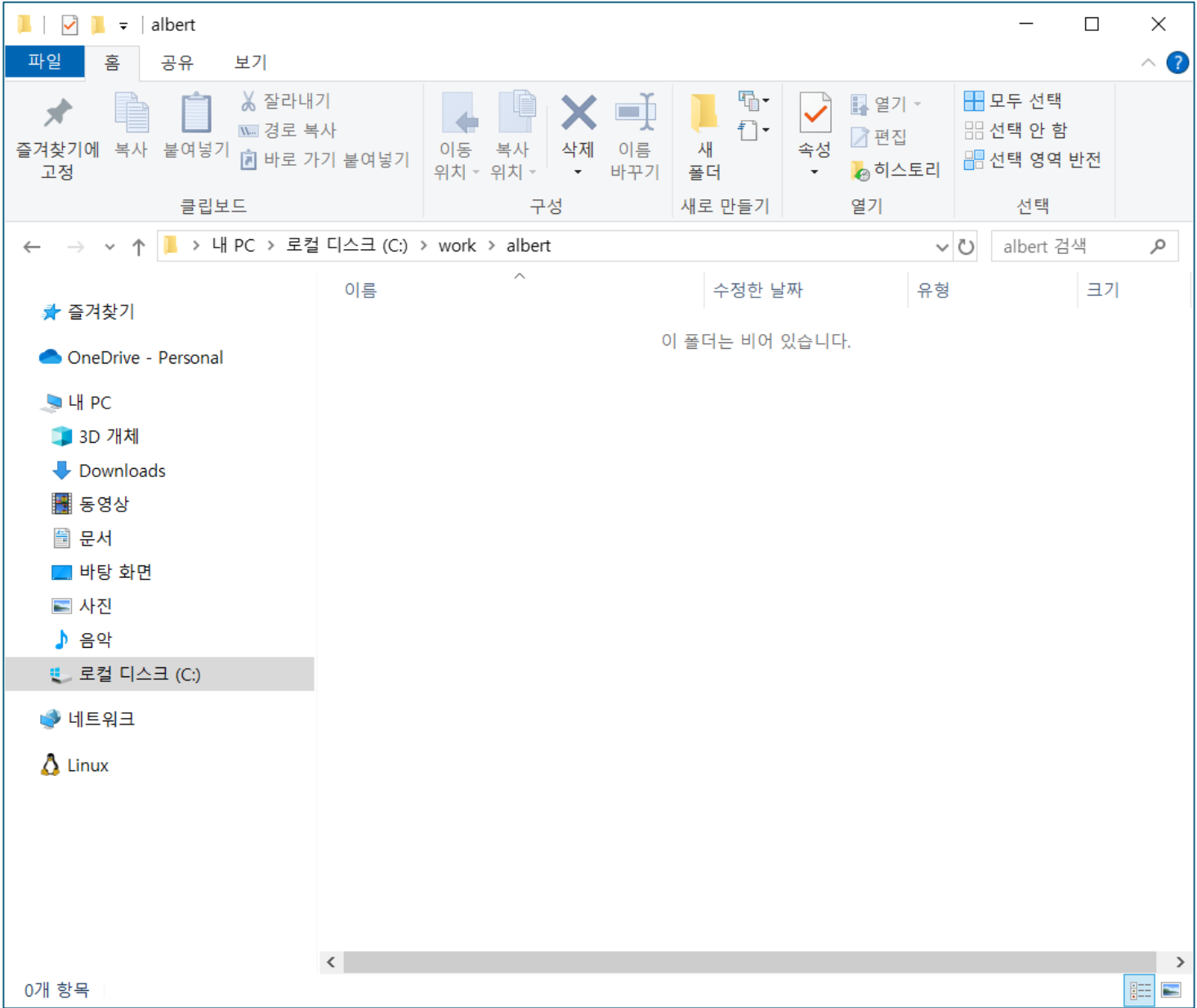
Double-click the .exe file.



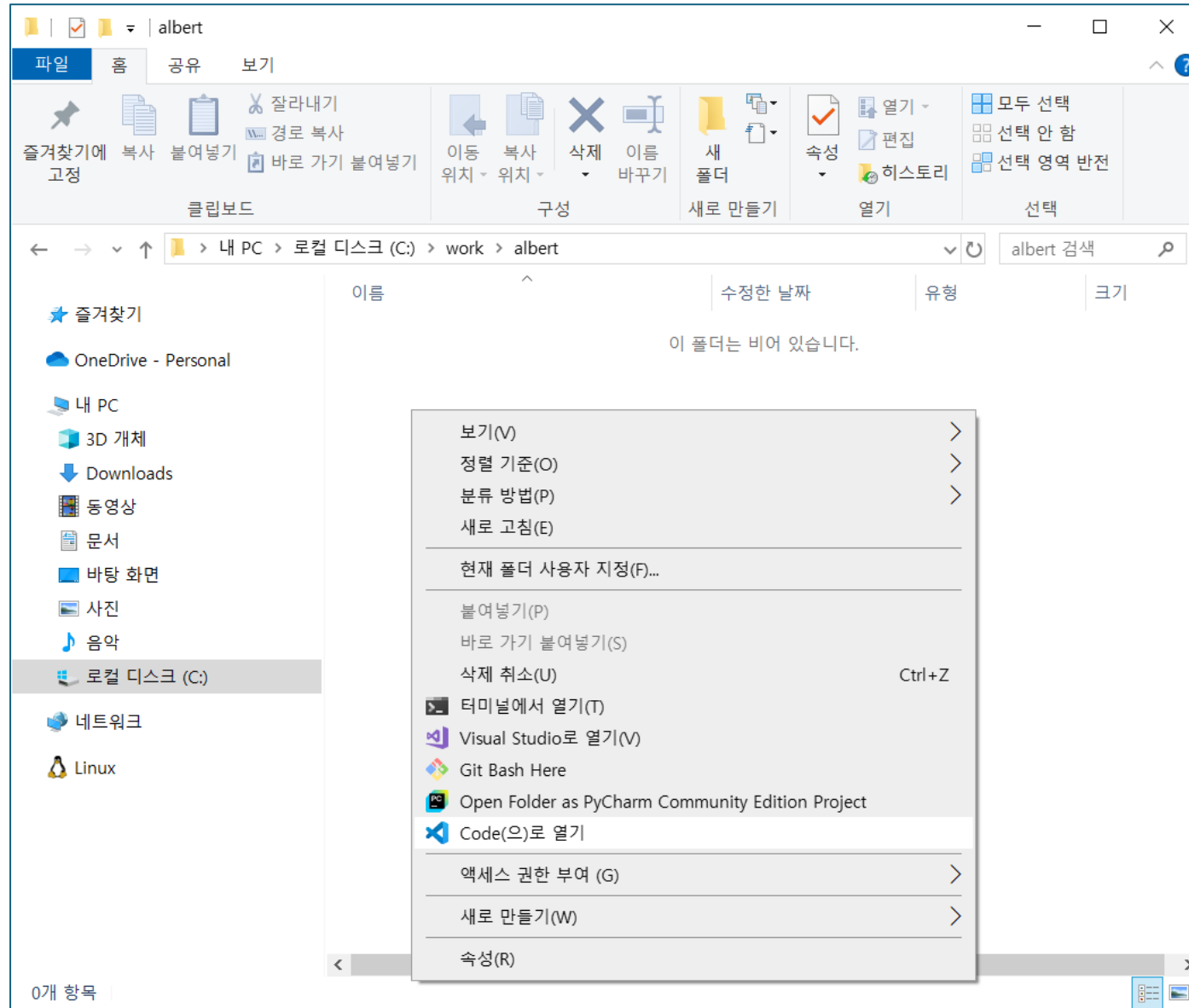


Virtual Environment for Albert

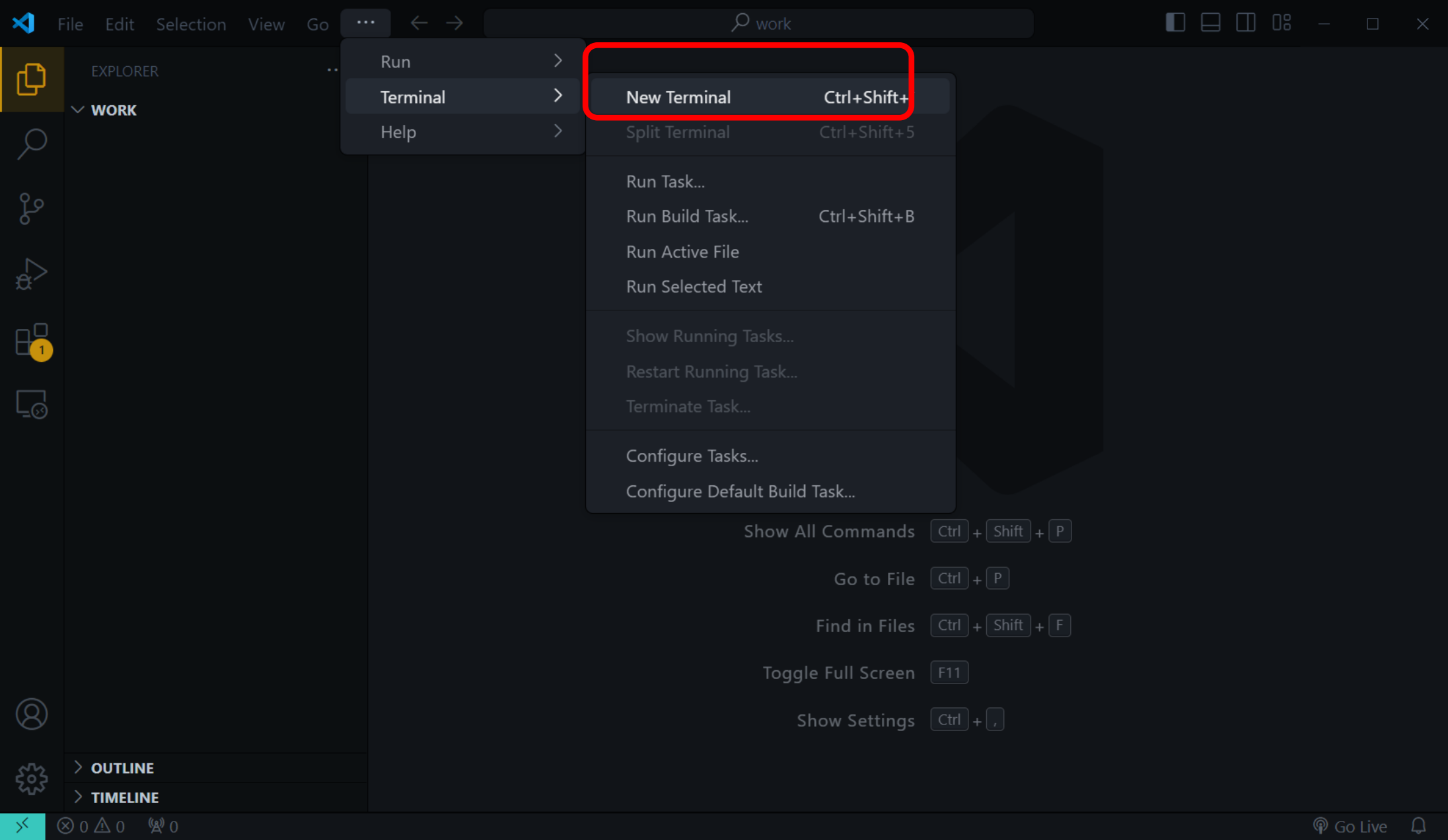
Make C:/work/albert



VSCode



Open Terminal



PROBLEMS

OUTPUT

TERMINAL

...



cmd



```
C:\work\albert>conda create -n albert python==3.11
```

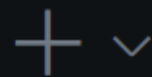
PROBLEMS

OUTPUT

TERMINAL

...

C:\ cmd



...



```
C:\work\albert>conda activate albert
```

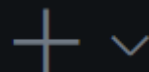

PROBLEMS

OUTPUT

TERMINAL

...

C:\ cmd



...



```
C:\work\albert>conda activate albert
```

```
(albert) C:\work\albert>
```

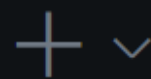
PROBLEMS

OUTPUT

TERMINAL

...

C:\ cmd



...



```
(albert) C:\work\albert>pip install jupyterlab
```

PROBLEMS

OUTPUT

TERMINAL

...



cmd



...



```
(albert) C:\work\albert>pip install -U roboid
```

PROBLEMS

OUTPUT

TERMINAL

...



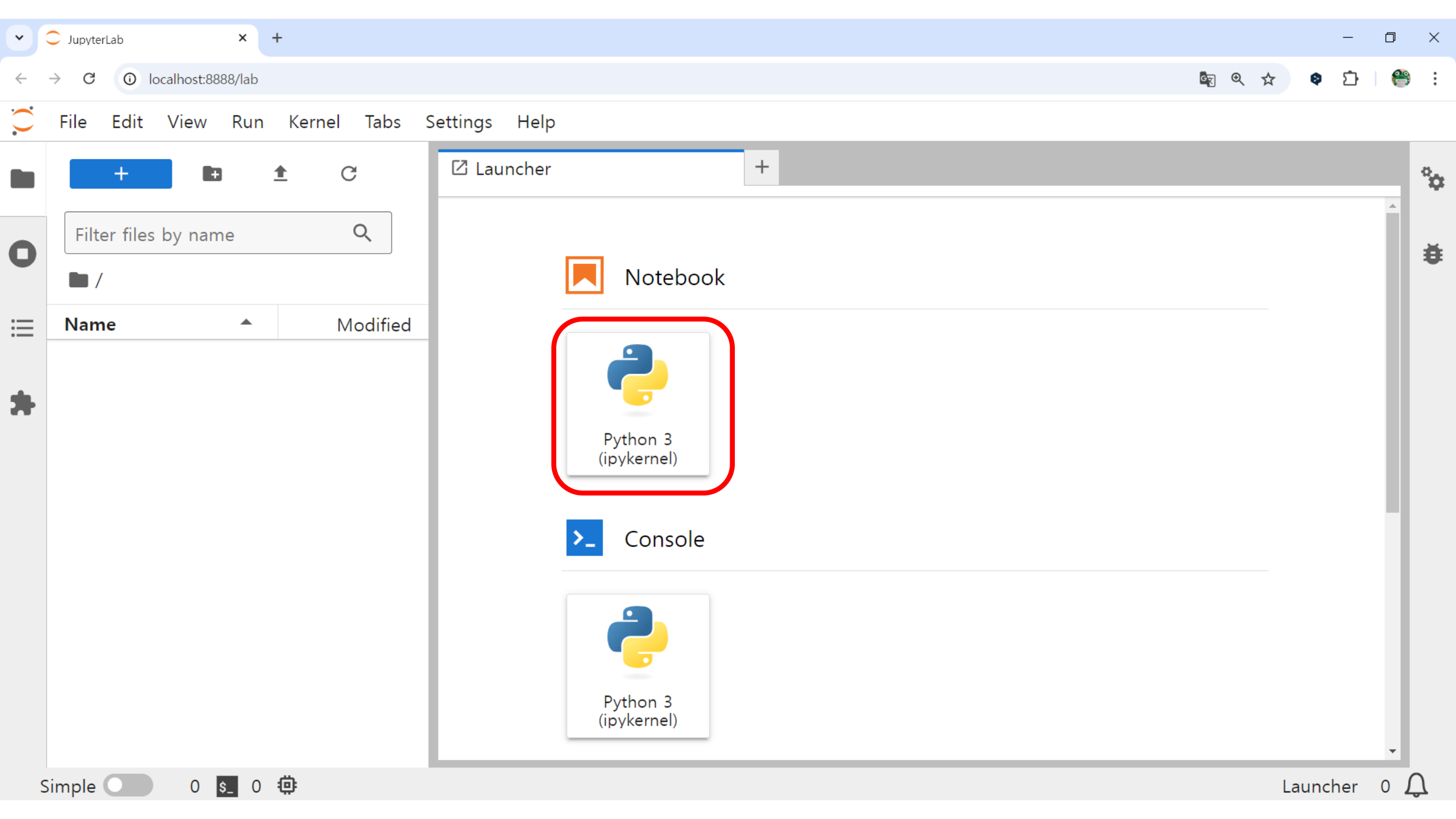
cmd

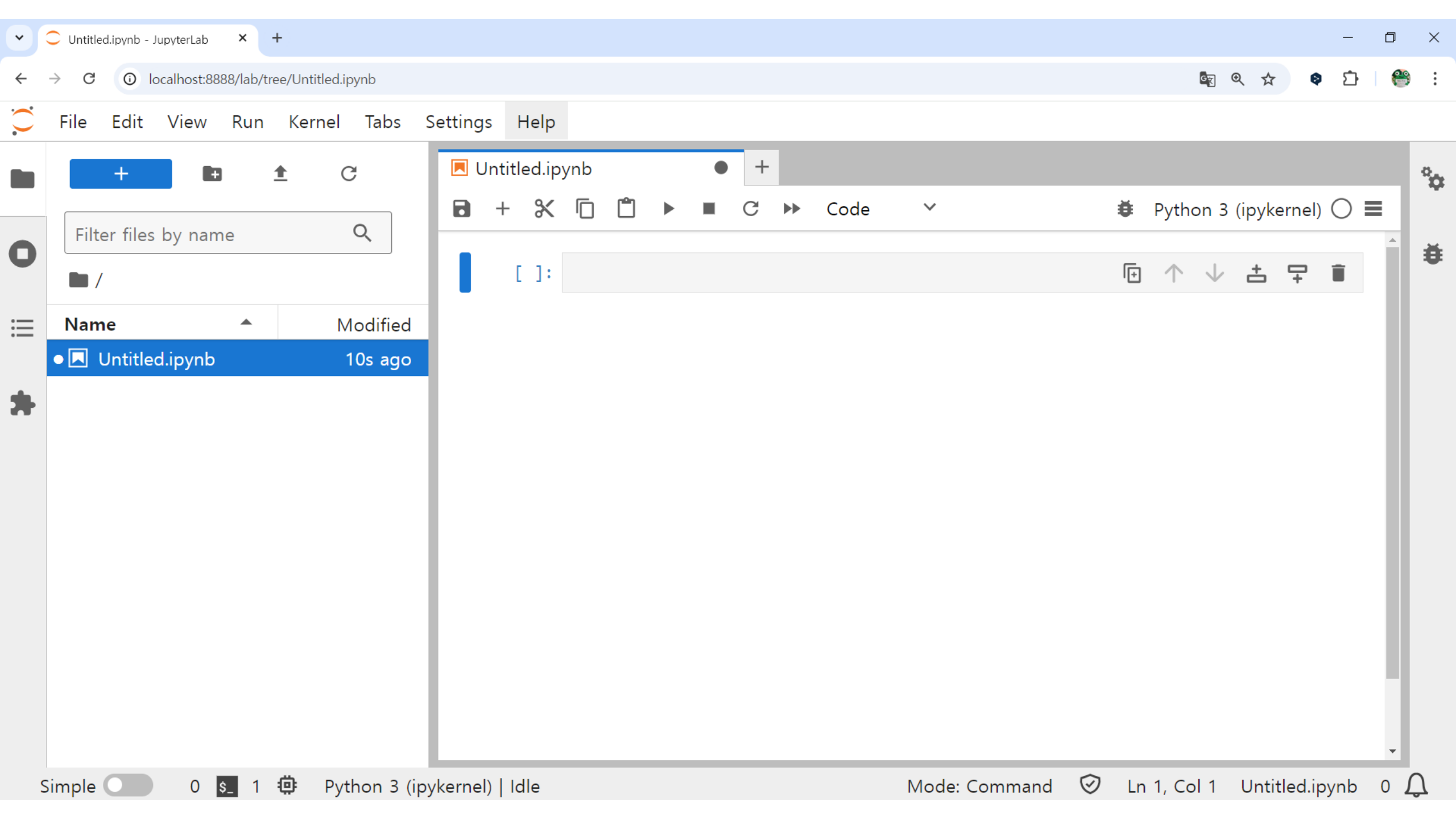


...



```
(albert) C:\work\albert>jupyter lab
```





Filter files by name

/

Name

Modified

• Untitled.ipynb

10s ago

Untitled.ipynb



Code



Python 3 (ipykernel)



[]:



```
[1]: from roboid import *
```

```
[5]: albert = AlbertAi()
```

```
AlbertAi[0] Disposed
```

```
AlbertAi[0] Connected: COM10 C3:EF:B5:94:D9:35
```

```
[3]: albert.move_forward()
```

```
[7]: albert.move_backward()
```

```
[8]: albert.turn_left(90)
```

```
[9]: albert.turn_right(90)
```



```
[8]: albert.turn_left(90)
```

```
[9]: albert.turn_right(90)
```

```
[11]: albert.pivot_left(90)
```

```
[12]: albert.pivot_right(90)
```

```
[15]: # wheels(left_velocity, right_velocity)  
albert.wheels(50, 50)  
wait(3000)  
albert.stop()
```

LED

```
[21]: albert.eyes(255, 0, 0)
```

```
[22]: for i in range(20):  
      albert.eyes(255, 0, 0)  
      wait(200)  
      albert.eyes(0, 0, 255)  
      wait(200)
```

```
[23]: albert.eyes("off")
```

Proximity

```
[27]: albert.left_proximity()
```

```
[27]: 19
```

```
[29]: def get_proximity():  
      l = albert.left_proximity()  
      r = albert.right_proximity()  
      return r if r > l else l
```

```
[37]: get_proximity()
```

```
[37]: 68
```

```
[ ]: while True:
    val = get_proximity()
    if val > 50:
        albert.wheels(-50, -50)
    else:
        albert.wheels(50, 50)
```

```
[43]: albert.stop()
```

Light Sensor

```
[48]: albert.light()
```

```
[48]: 1
```

Sound

```
[53]: for i in range(5):  
        albert.sound('beep')  
        wait(200)
```

```
[54]: albert.sound('siren')
```

1. Install Dongle Driver
2. `pip install -U roboid`
3. `pip install -U pyroboid`

THE END