





INSTALLING LAB ENVIRONMENT ON WINDOWS

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Lab Environment

> Python 3.11.6 (64-bit) for Windows



> Jupyter Notebook



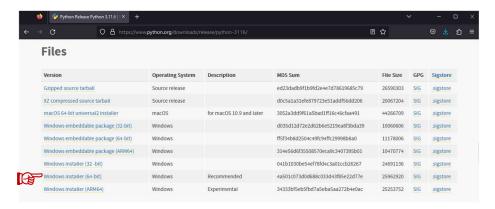
> Visual Studio Code



Installing Python 3.11.6

> Download Python 3.11.6 for Windows OS

https://www.python.org/downloads/release/python-3116/



https://www.python.org/ftp/python/3.11.6/python-3.11.6-amd64.exe

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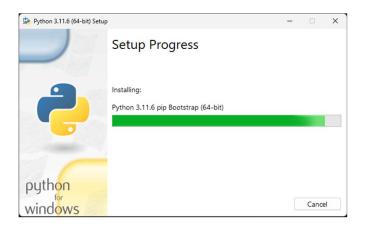
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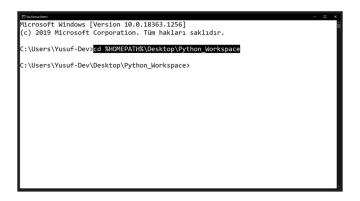
Update pip and setuptools

```
> Open Windows Command Line Prompt. Press Windows+R to open "Run" box. Type "cmd" and
then click "OK". Type commands below.
> python --version
Python 3.11.6
> python -m pip install --upgrade pip setuptools
Collecting setuptools
  Obtaining dependency information for setuptools from
https://files.pythonhosted.org/packages/bb/26/7945080113158354380a12ce26873dd6c1e
bd88d47f5bc24e2c5bb38c16a/setuptools-68.2.2-py3-none-any.whl.metadata
  Downloading setuptools-68.2.2-py3-none-any.whl.metadata (6.3 kB)
Downloading setuptools-68.2.2-py3-none-any.whl (807 kB)
807.9/807.9 kB 1.8 MB/s eta 0:00:00
Installing collected packages: setuptools
  Attempting uninstall: setuptools
      Found existing installation: setuptools 65.5.0
      Uninstalling setuptools-65.5.0:
      Successfully uninstalled setuptools-65.5.0
Successfully installed setuptools-68.2.2
```

Installing Dependencies

Open Windows Command Prompt and change directory to "Python Workspace" path.

> cd %HOMEPATH%\Desktop\Python Workspace



Installing Dependencies

Then install these requirements
> pip install --upgrade -r requirements.txt

C

Running Jupyter Lab



> jupyter lab

[I 2023-10-15 15:23:32.105 ServerApp] Serving notebooks from local directory: C:\Users\DCL-Course\Desktop\Python_Workspace

[I 2023-10-15 15:23:32.105 ServerApp] Jupyter Server 2.7.3 is running at:

[I 2023-10-15 15:23:32.105 ServerApp] http://localhost:8888/lab?token=a98e60ab9f87e41521bbc896d92d81add5b6f0fb83ea7517

[I 2023-10-15 15:23:32.105 ServerApp] http://127.0.0.1:8888/lab?token=a98e60ab9f87e41521bbc896d92d81add5b6f0fb83ea7517

 $\hbox{[I 2023-10-15 15:23:32.105 Server App] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation). } \\$

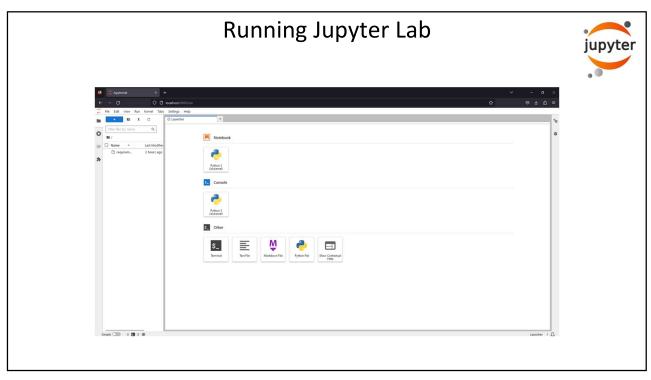
[C 2023-10-15 15:23:32.134 ServerApp]

To access the server, open this file in a browser:

 ${\tt file:///C:/Users/DCL-Course/AppData/Roaming/jupyter/runtime/jpserver-7624-open.html}$

Or copy and paste one of these URLs:

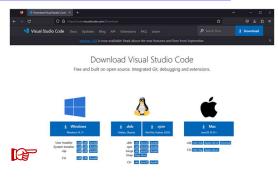
http://localhost:8888/lab?token=a98e60ab9f87e41521bbc896d92d81add5b6f0fb83ea7517



Installing Visual Studio Code

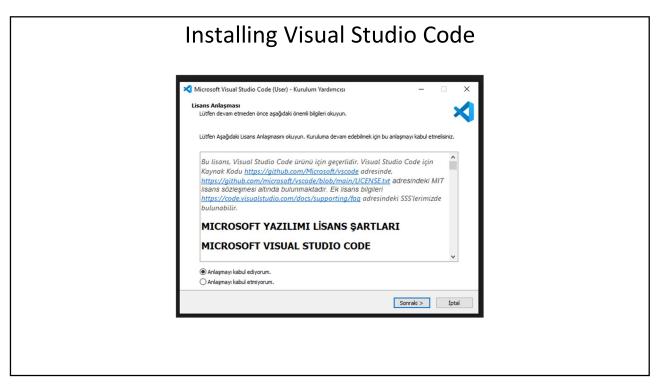
> Download Visual Studio Code for Windows OS

https://code.visualstudio.com/download

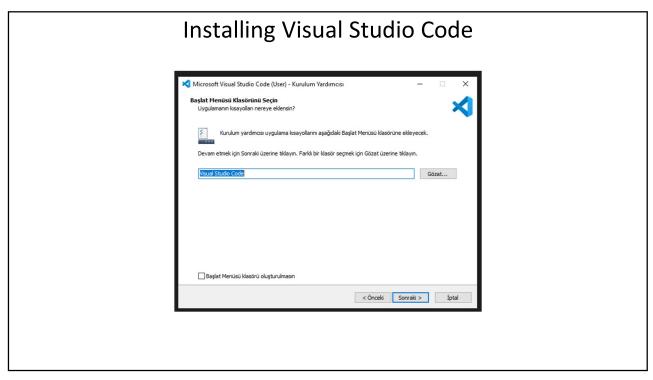


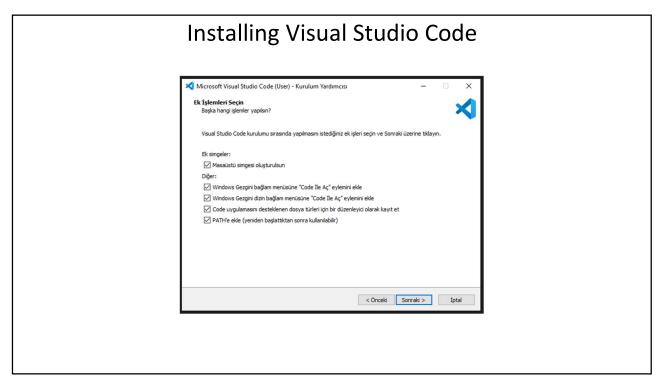
By downloading and using Visual Studio Code, you agree to the license terms and privacy statement.

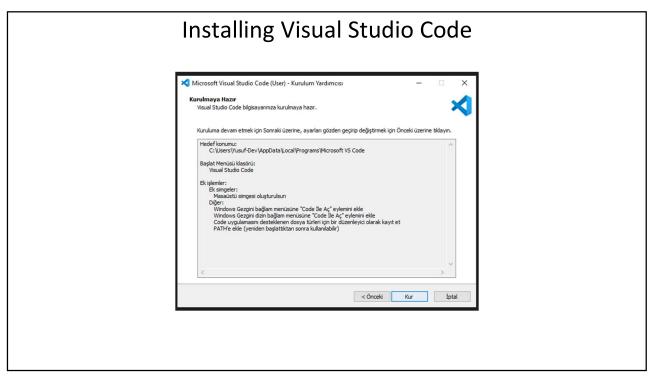
 $\frac{https://az764295.vo.msecnd.net/stable/f1b07bd25dfad64b0167beb15359ae573aecd2cc/VSCo}{deUserSetup-x64-1.83.1.exe}$

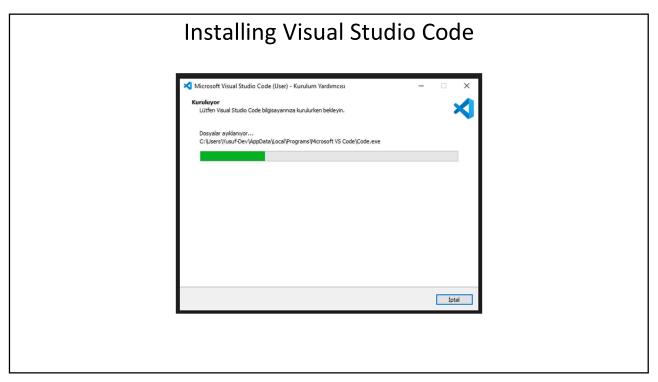


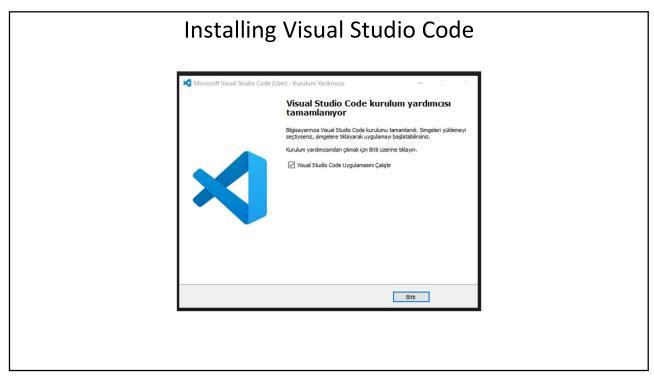














Installing Visual Studio Code

> Go to VSCode extensions tab and install **Python**, **Pylance** and **Jupyter** extensions in order.

