Python Installation

1. Downloads

Please download the Python installer from the official website.

```
https://www.python.org/downloads/windows/
```

2. Installation

1.   During the installation process, make sure to add Python to **PATH**, shown in the Figure below. (Pay attention to the two checkboxes on the installation screen)
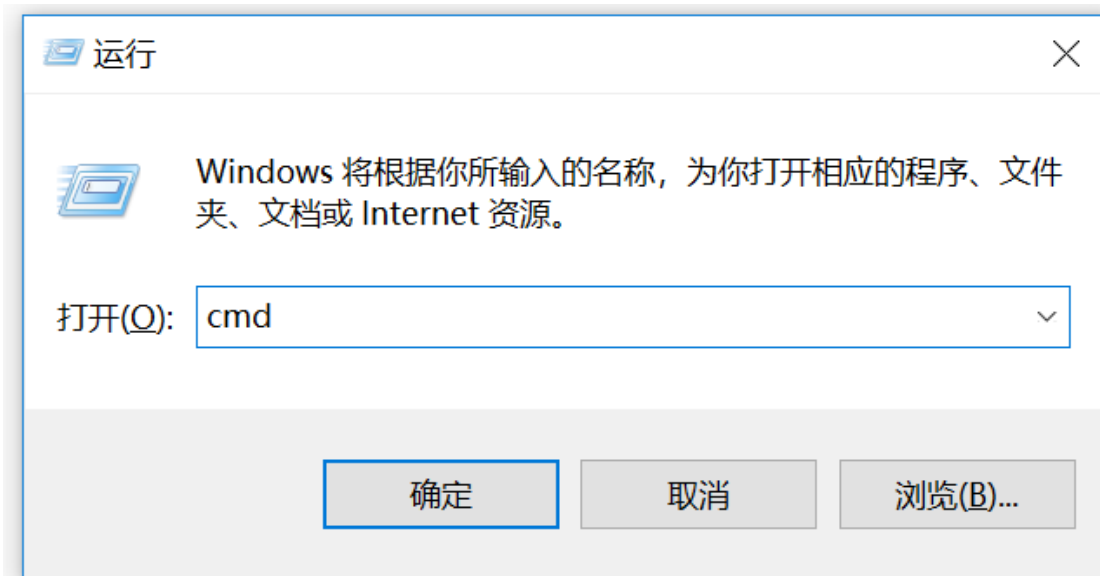

2.   Additionally, avoid using a path that contains Chinese characters, as this may cause issues when installing Python packages.

3. Install Python Packages

After completing the Python installation, we need to install **Jupyter Notebook** for coding, as well as **numpy** and other related packages.

1.   Windows + R will show you the "RUN" box, type **cmd** to open a **command** window.

2. Install **Jupyter**, **Notebook**, and **Other** Python packages in the command window:


```Python
# pip3 install [library1] [library2] [library3]
pip3 install jupyter notebook
pip3 install numpy
# Use -i to specify the Aliyun (Alibaba) mirror to speed up the
download. You can search for other mirrors as needed.
pip3 install jupyter notebook numpy -i
https://mirrors.aliyun.com/pypi/simple
```

4. Start Jupyter Notebook

In a command windows, type "jupyter notebook"

5. Other Methods for Installing Python

Miniconda, and **Anaconda** are used commonly. They have provided better package management and python environment management.

Note that when installing Python using any of these methods, make sure to check the option to 'add to PATH' during the installation process.

6. Online Coding Platform

Google Colab.