

Conda + VScode Handbook

...

Tools


Python Virtual Environment Management Tool

1. [Anaconda Navigator - UI](#)
2. [Conda - command line](#)

IDE

1. [VSCODE](#)

1. Anaconda-Navigator - Installation

[Products](#) [Solutions](#) [Resources](#) [Partners](#) [Company](#)

[Free Download](#) [Sign Up](#) [Sign In](#)

Distribution

Free Download*

Register to get everything you need to get started on your workstation including Cloud Notebooks, Navigator, AI Assistant, Learning and more.

- ✓ Easily search and install thousands of data science, machine learning, and AI packages
- ✓ Manage packages and environments from a desktop application or work from the command line
- ✓ Deploy across hardware and software platforms
- ✓ Distribution installation on Windows, MacOS, or Linux

Provide email to download Distribution

Email Address:

☐ Agree to receive communication from Anaconda regarding relevant content, products, and services. I understand that I can revoke this consent [here](#) at any time.

By continuing, I agree to Anaconda's [Privacy Policy](#) and [Terms of Service](#).

Submit >

Skip registration

1. Anaconda-Navigator - UI

The screenshot displays the Anaconda Navigator application interface. On the left, a sidebar contains navigation links: Home, Environments, Learning, and Community. Below these is a promotional banner for the 'Anaconda Toolbox' and links to Documentation and the Anaconda Blog. At the bottom of the sidebar is a row of icons: a plus sign (Create), a folder (Clone), a document (Import), a backup symbol (Backup), and a trash can (Remove). The 'Create' icon is highlighted with a red box, and a red arrow points from it to the 'Create new environment' dialog box on the right.

The main area of the application shows a list of environments on the left and a table of installed packages on the right. The environments list includes 'base (root)', 'anaconda3', 'base', 'citylearnenv', 'env_datasci', and 'env_testpython'. The package table lists various installed packages with their descriptions and versions.

The 'Create new environment' dialog box is open, showing the following fields:

- Name:** dsde-cedt
- Location:** /opt/anaconda3/envs/dsde-cedt
- Packages:** ☒ Python 3.12.7, ☐ R

Buttons for 'Cancel' and 'Create' are at the bottom right of the dialog box.

Name	Description	Version
✓ _anaconda_depends	○ Simplifies package management and deployment	
✓ abseil-cpp	○ Abseil common libraries (c++)	202308
✓ aext-assistant	○ Anaconda extensions assistant library	4.0.15
✓ aext-assistant-server	○ Anaconda extensions assistant server	4.0.15
✓ aext-core	○ Anaconda extensions core library	4.0.15
✓ aext-core-server	○ Anaconda toolbox backend lib core server component	4.0.15
✓ aext-panels	○ The aext-panels component of anaconda-toolbox	4.0.15
✓ aext-panels-server	○ The aext-panels-server component of anaconda-toolbox	4.0.15
✓ aext-share-notebook	○ The aext-share-notebook component of anaconda-toolbox	4.0.15
✓ aext-share-notebook-server	○ Anaconda extensions share notebook server	4.0.15
✓ aext-shared	○ Anaconda extensions shared library	4.0.15
✓ aiobotocore	○ Async client for aws services using botocore and aiohttp	2.12.3
✓ aiohttp	○ Async http client/server framework (asyncio)	↗ 3.9.5
✓ aiohttp	○ Async http client/server framework (asyncio)	↗ 3.9.5

2. Conda command line

```
conda create --name ds-ice python=3.11
```

```
conda activate ds-ice
```

Grader Problems

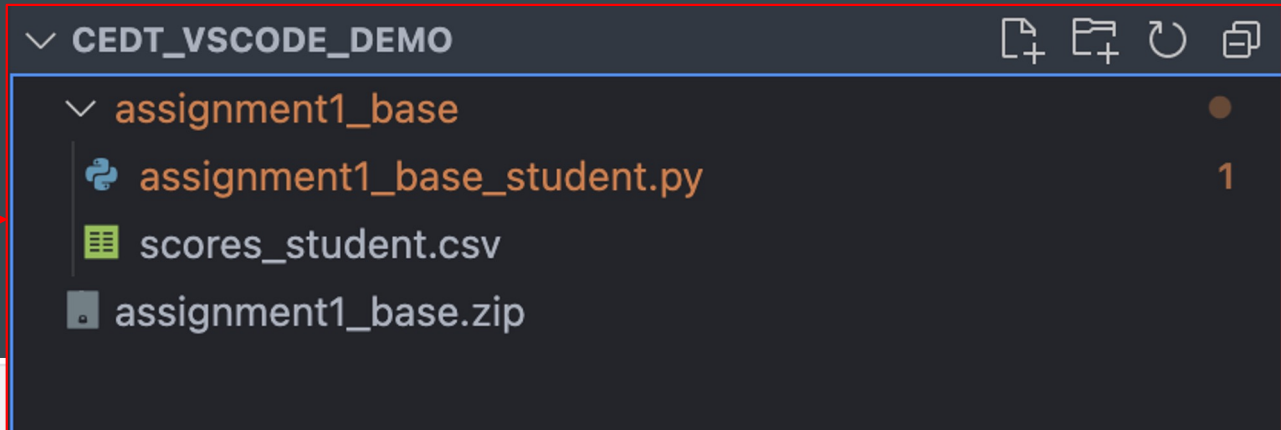
Grader

1 **01_pandas_01**
01_pandas_01 Pandas basic

[Read](#) | [File](#)

2 **01_pandas_02**
01_pandas_02 Youtube stats

[Read](#) | [File](#)



Install library

```
pip install pandas
```

VSCODE

The image shows the VS Code editor interface with a dark theme. The left sidebar displays the file explorer for a workspace named 'CEDT_VSCODE_DEMO'. Inside a folder named 'assignment1_base', there are three files: 'assignment1_base_student.py' (a Python file icon), 'scores_student.csv' (a CSV file icon), and 'assignment1_base.zip' (a zip file icon). The 'assignment1_base_student.py' file is open in the main editor area, showing a Python script. The script imports 'pandas' as 'pd', defines a 'main()' function that takes a file path and a function name as input, reads the CSV file, and prints the shape of the DataFrame for 'Q1'. The script also includes a standard if __name__ == '__main__': main() block. The bottom panel shows the 'TERMINAL' tab with a shell prompt 'zsh - assignmen'. The terminal output shows the execution of the script, which prints 'Q1' and '(50, 2)'. The terminal also shows the commands used to run the script: 'cd assignment1_base', 'conda activate dsde-cedt', and 'python assignment1_base_student.py scores_student.csv'.

```
assignment1_base > python assignment1_base_student.py > ...
1  import pandas as pd
2
3  def main():
4      file = input()
5      func = input()
6
7      df = pd.read_csv(file)
8
9      if func == 'Q1':
10         print(df.shape)
11     elif func == 'Q2':
12         pass
13     elif func == 'Q3':
14         pass
15     else:
16         pass
17
18 if __name__ == "__main__":
19     main()
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS zsh - assignmen

- (base) theerapatkangsilalai@Super-computer CEDT_VSCODE_DEMO % cd assignment1_base
- (base) theerapatkangsilalai@Super-computer assignment1_base % conda activate dsde-cedt
- (dsde-cedt) theerapatkangsilalai@Super-computer assignment1_base % python assignment1_base_student.py scores_student.csv

Q1
(50, 2)