

# Conda + VScode Handbook

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# Tools


## Python Virtual Environment Management Tool

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## IDE

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# 1. Anaconda-Navigator - Installation

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# 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, including a red-outlined 'Create' button. A red arrow originates from this 'Create' button and points to the 'Create new environment' dialog box on the right.

The 'Create new environment' dialog box has a green header and a close button (X) in the top right corner. It contains the following fields:

- Name:** A text input field containing 'dsde-cedt'.
- Location:** A text input field containing '/opt/anaconda3/envs/dsde-cedt'.
- Packages:** A section with two rows:
  - ☒ Python 3.12.7 (with a dropdown arrow)
  - ☐ R (with an empty dropdown menu)

At the bottom of the dialog are two buttons: 'Cancel' and 'Create'.

The main interface background shows a list of environments on the left, a search bar, and a table of installed packages on the right. The table has columns for 'Name', 'Description', and a version/status column. The first row is '\_anaconda\_depends' with the description 'Simplifies package management and deployment'. Other rows include 'abseil-cpp', 'aext-assistant', 'aext-assistant-server', 'aext-core', 'aext-core-server', 'aext-panels', 'aext-panels-server', 'aext-share-notebook', 'aext-share-notebook-server', 'aext-shared', 'aiobotocore', and 'aiohttp'.

## 2. Conda command line

```
conda create --name dsde-cp python=3.11
```

```
conda activate dsde-cp
```

# Grader Problems

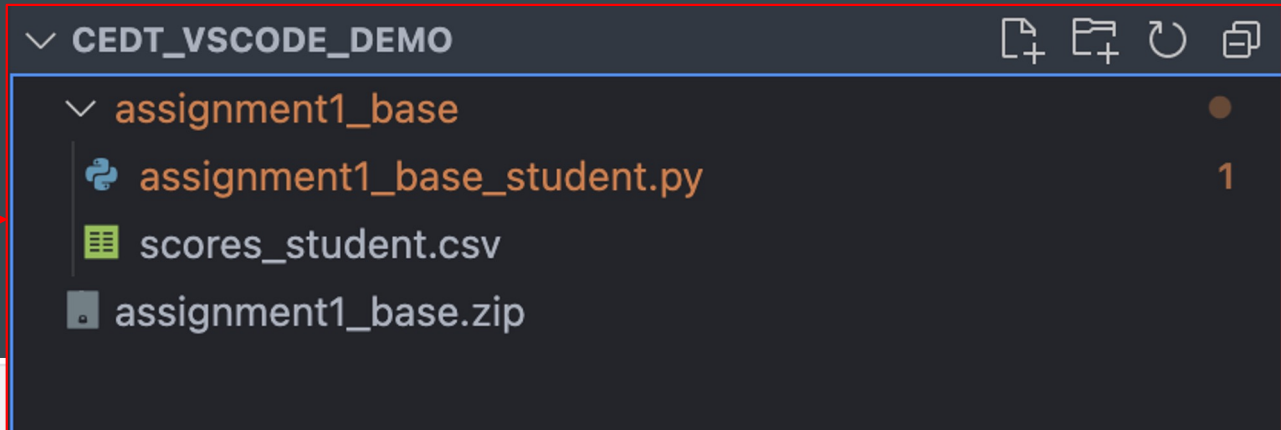
## Grader

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 the execution output. The output shows the command to run the script, followed by the output of the script: 'Q1' and '(50, 2)'. The terminal prompt is 'zsh - assignmen'.

```
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)