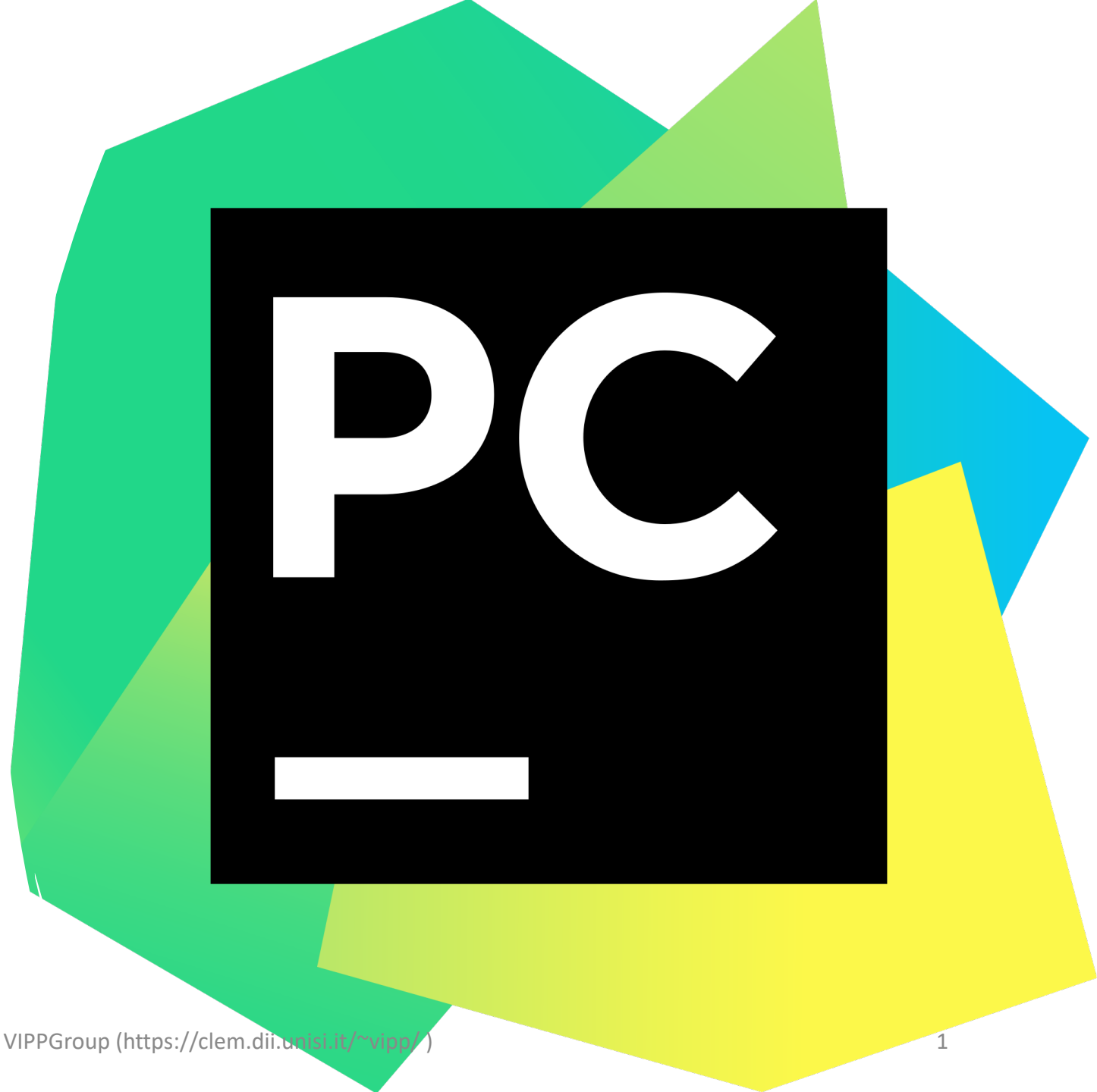
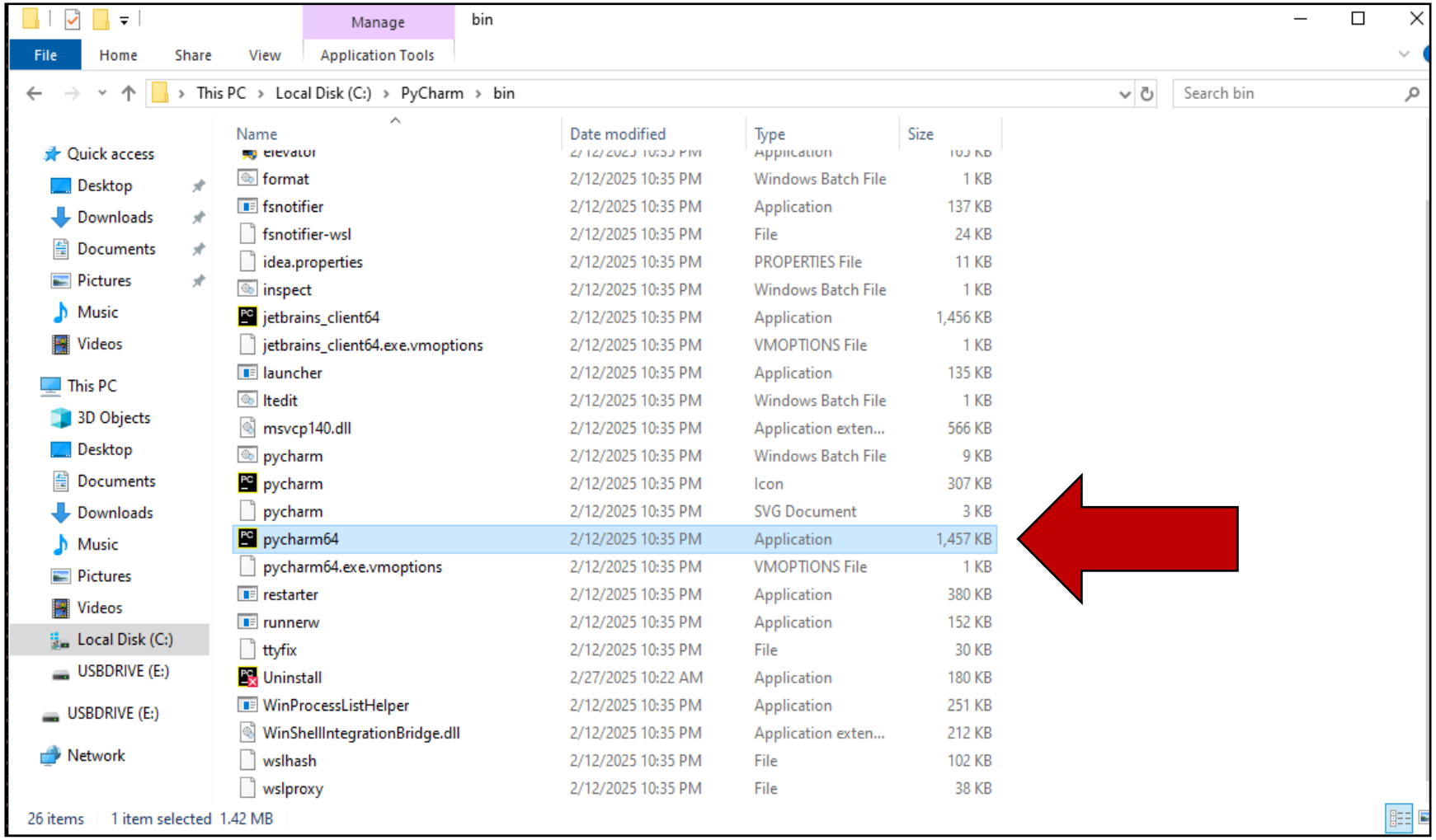
Python IDE setup guide

PyCharm Community Edition

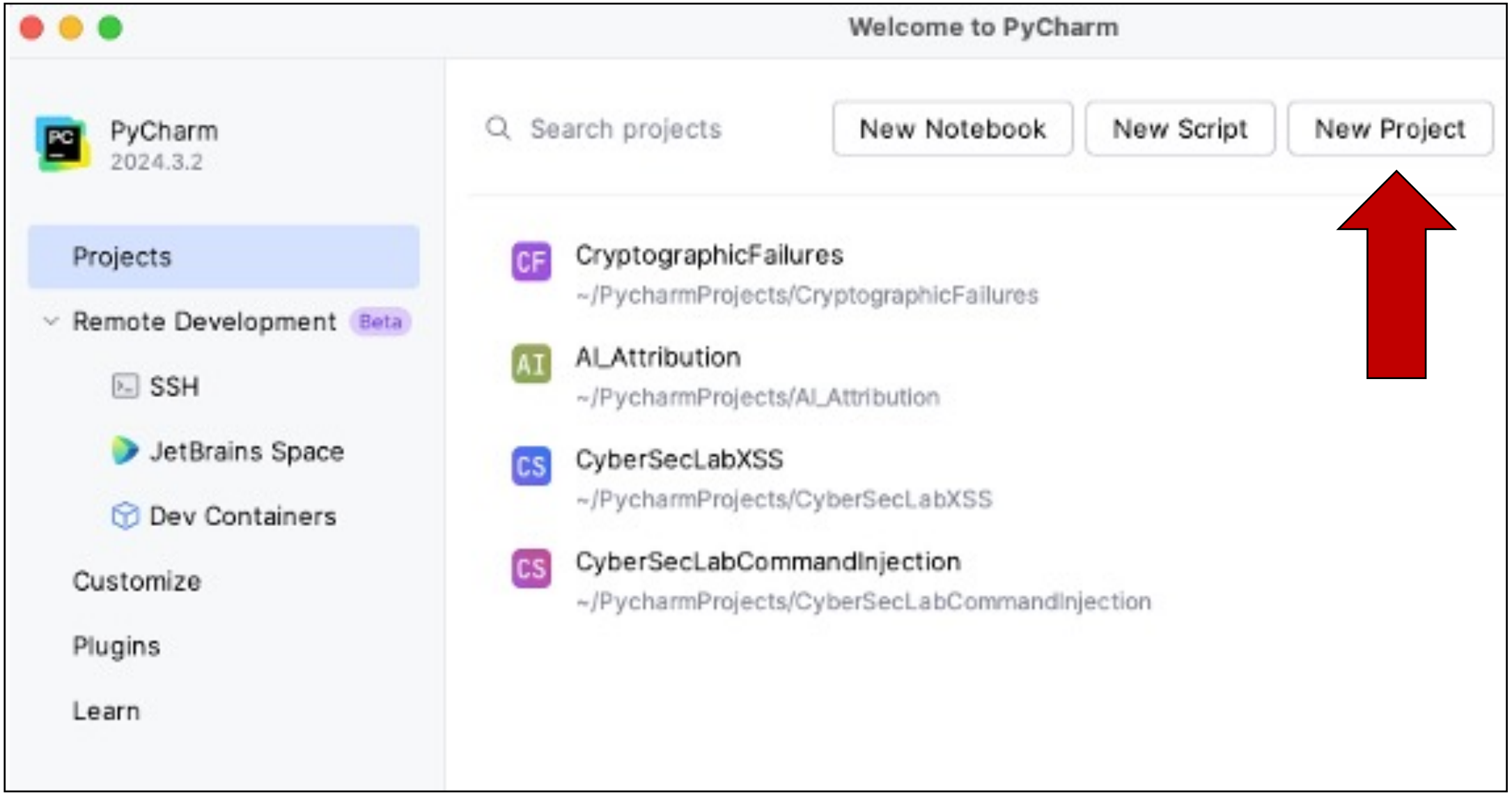


Start **PyCharm**. The executable is located in: C:/pycharm/bin/pycharm64.exe

If it asks for your UNISI credentials, then log in. Do not tick the *Remember me* box.

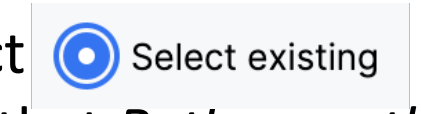


1. Create a new project with the New Project button.

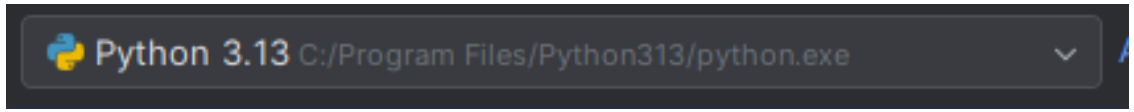


2. Give a name to your project (e.g. CybersecurityLab). You will find the new project in:

```
C:/Users/<diism-user>/PycharmProjects/CybersecurityLab
```

3. Select 

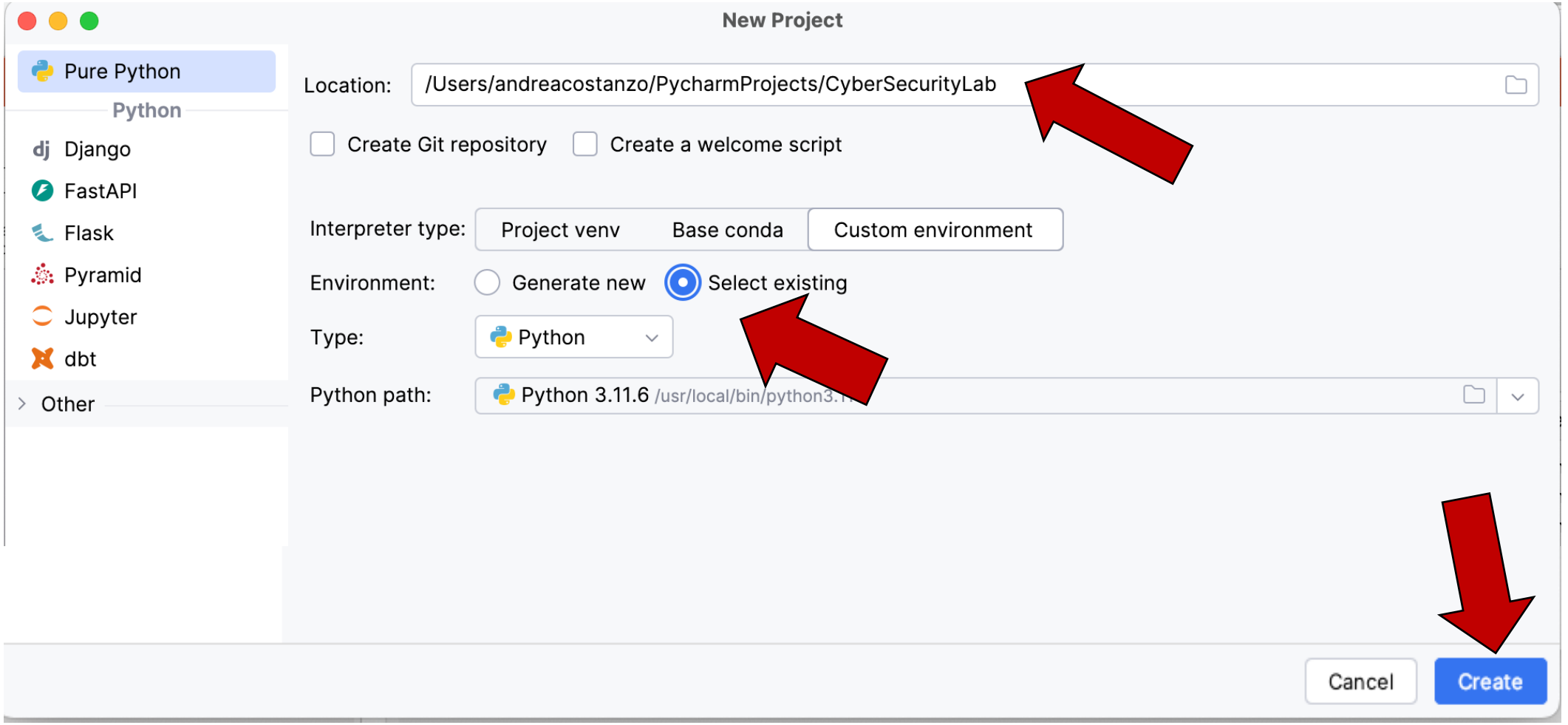
next to the *Environment* line. Leave the rest unchanged, making sure that *Python path* is set to:

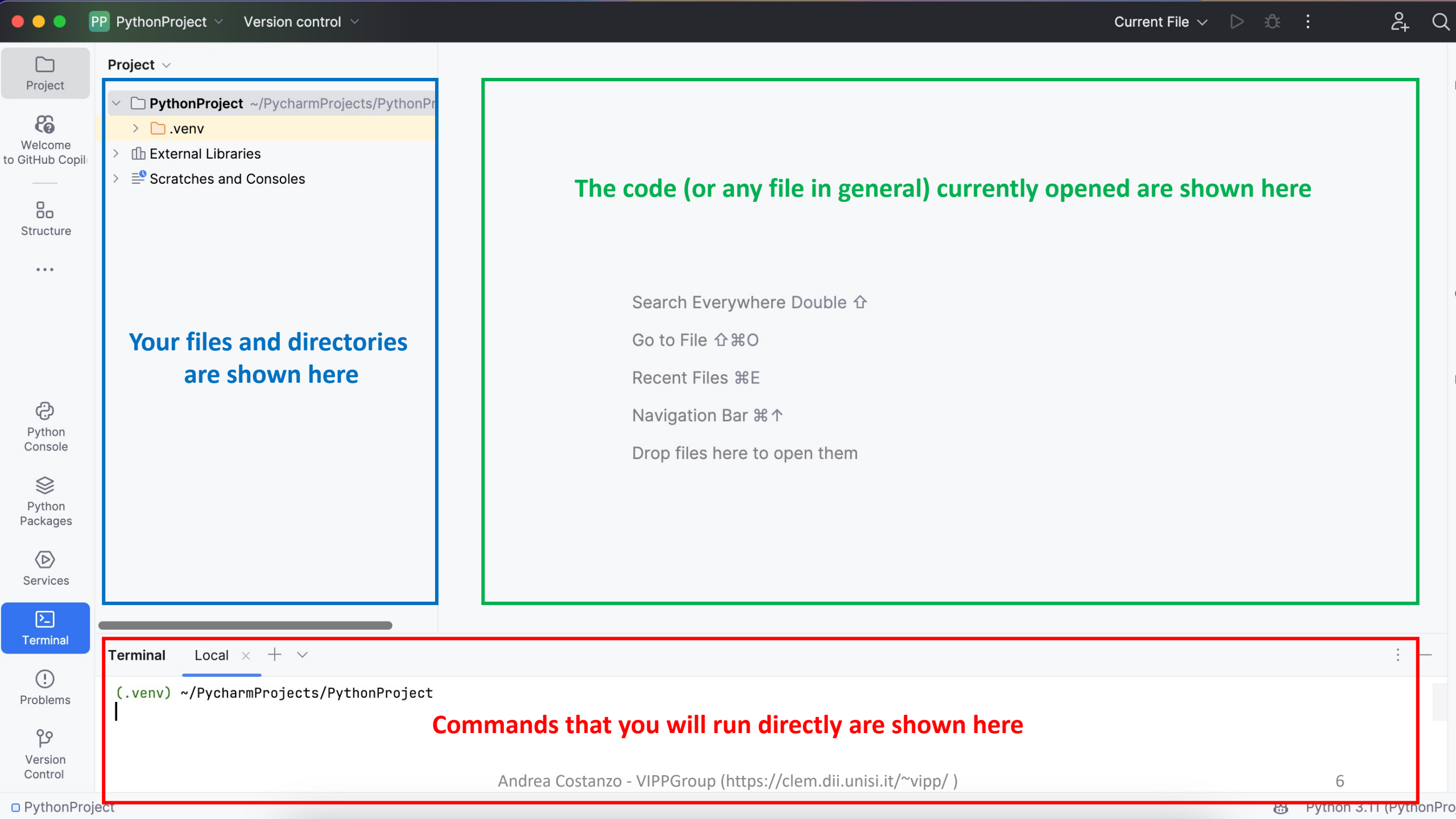


If you see a different path, click on the icon to the right and browse until you reach the Python installation directory that is located in:

```
C:/Program Files/Python313/python.exe
```

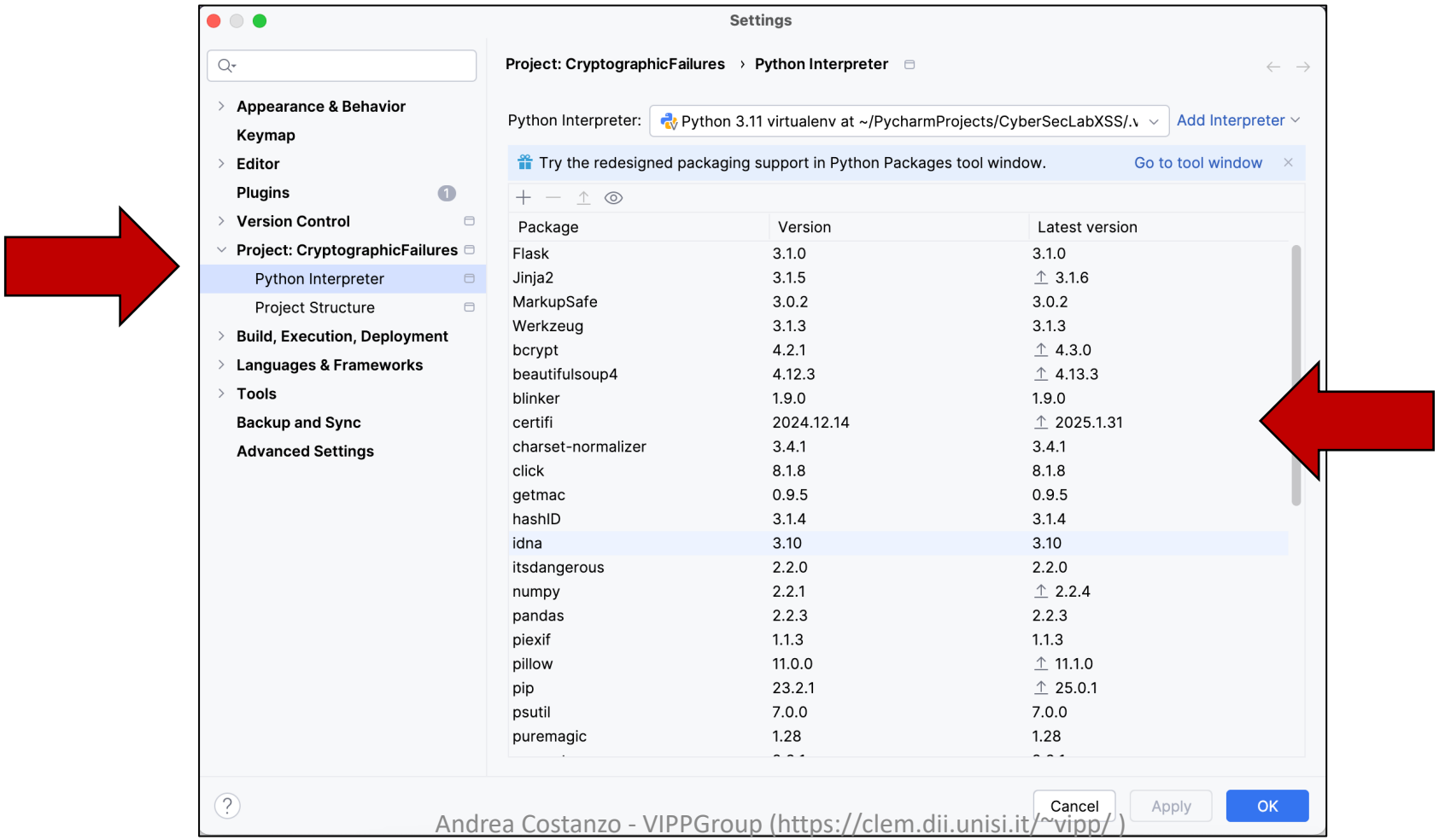
4. Press the Create button in the bottom right portion of the screen




PythonProject
Version control
Current File
Project
Welcome to GitHub Copil
Structure
Python Console
Python Packages
Services
Terminal
Problems
Version Control
Project
PythonProject ~/PycharmProjects/PythonPr
.venv
External Libraries
Scratches and Consoles
Your files and directories are shown here
The code (or any file in general) currently opened are shown here
Search Everywhere Double ⇧
Go to File ⇧⌘O
Recent Files ⌘E
Navigation Bar ⌘↑
Drop files here to open them
Terminal
Local
(.venv) ~/PycharmProjects/PythonProject
Commands that you will run directly are shown here
PythonProject
Python 3.11 (PythonPro

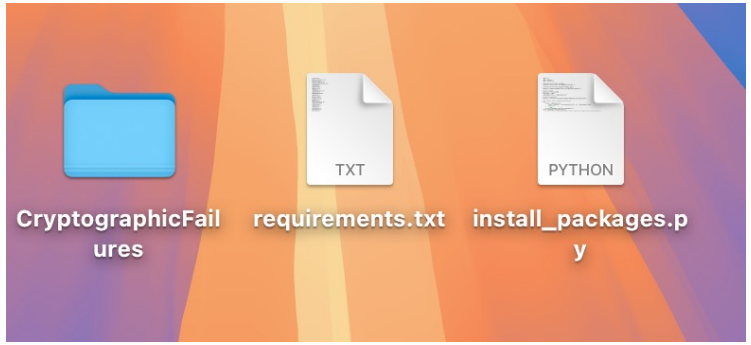
5. Verify that PyCharm finds the packages we need to use in our codes

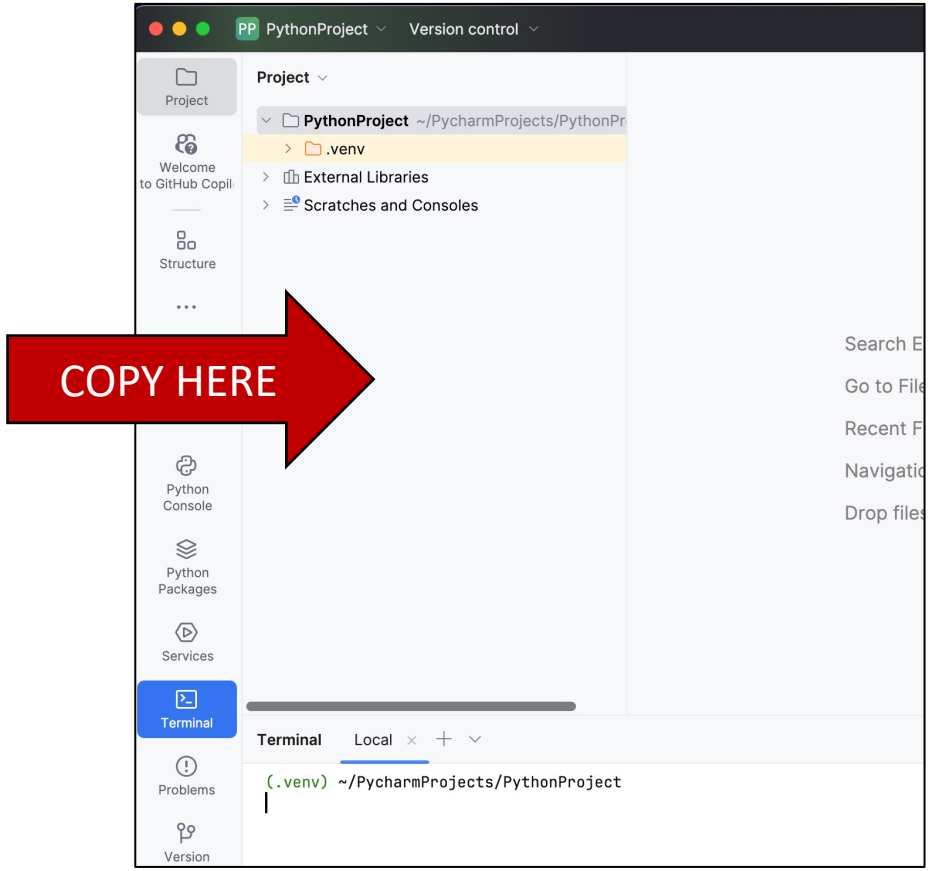
- Click on `File` ➔ `Settings`
- Scroll down to `Project:[NAME]` ➔ `Python Interpreter`
- You should see a long list of packages similar to this one:



6. Download the course material from https://clem.dii.unisi.it/~vipp/website_resources/courses/cybersecurity/lab_material.zip.
You need to use your UNISI credentials to access the Internet in the laboratory

7. Unzip the file and copy its content inside PyCharm, in the files and directories view



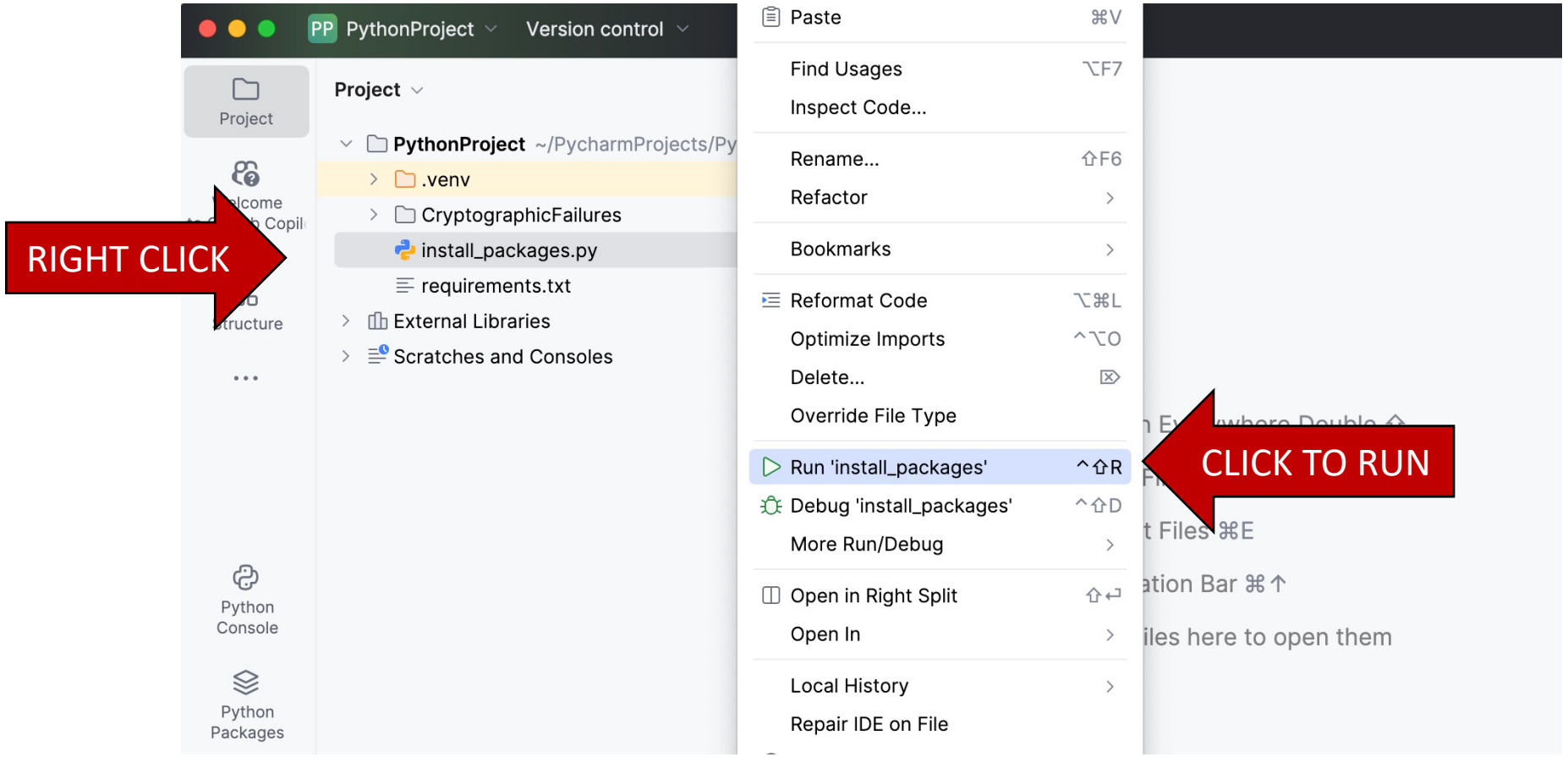


Copy with:

- Drag and drop
- CTRL-C / CTRL-V
- Manually copy inside the project directory

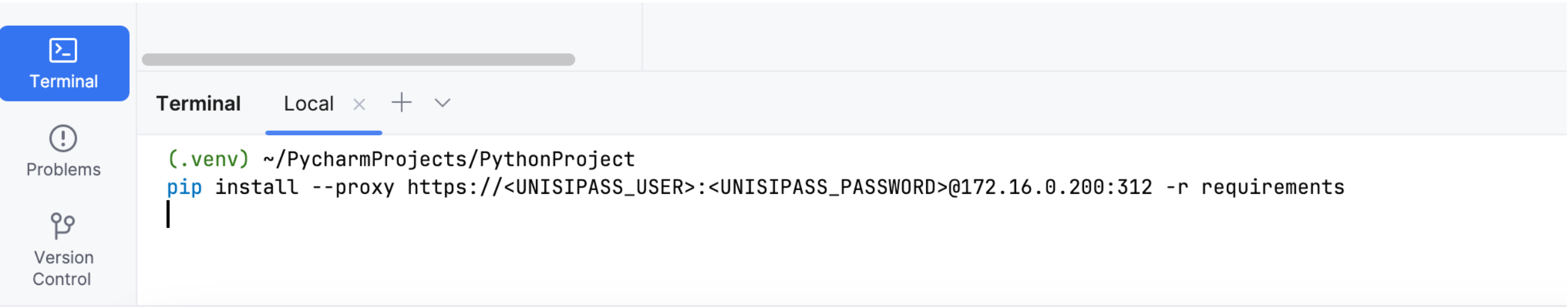
ALTERNATE INSTALL. SKIP THIS IF YOUR PACKAGES ARE ALREADY INSTALLED

- Right click on the `install_packages.py` file and select `Run 'install packages'`
- When asked, input your UNISI credentials
- Wait for the installation



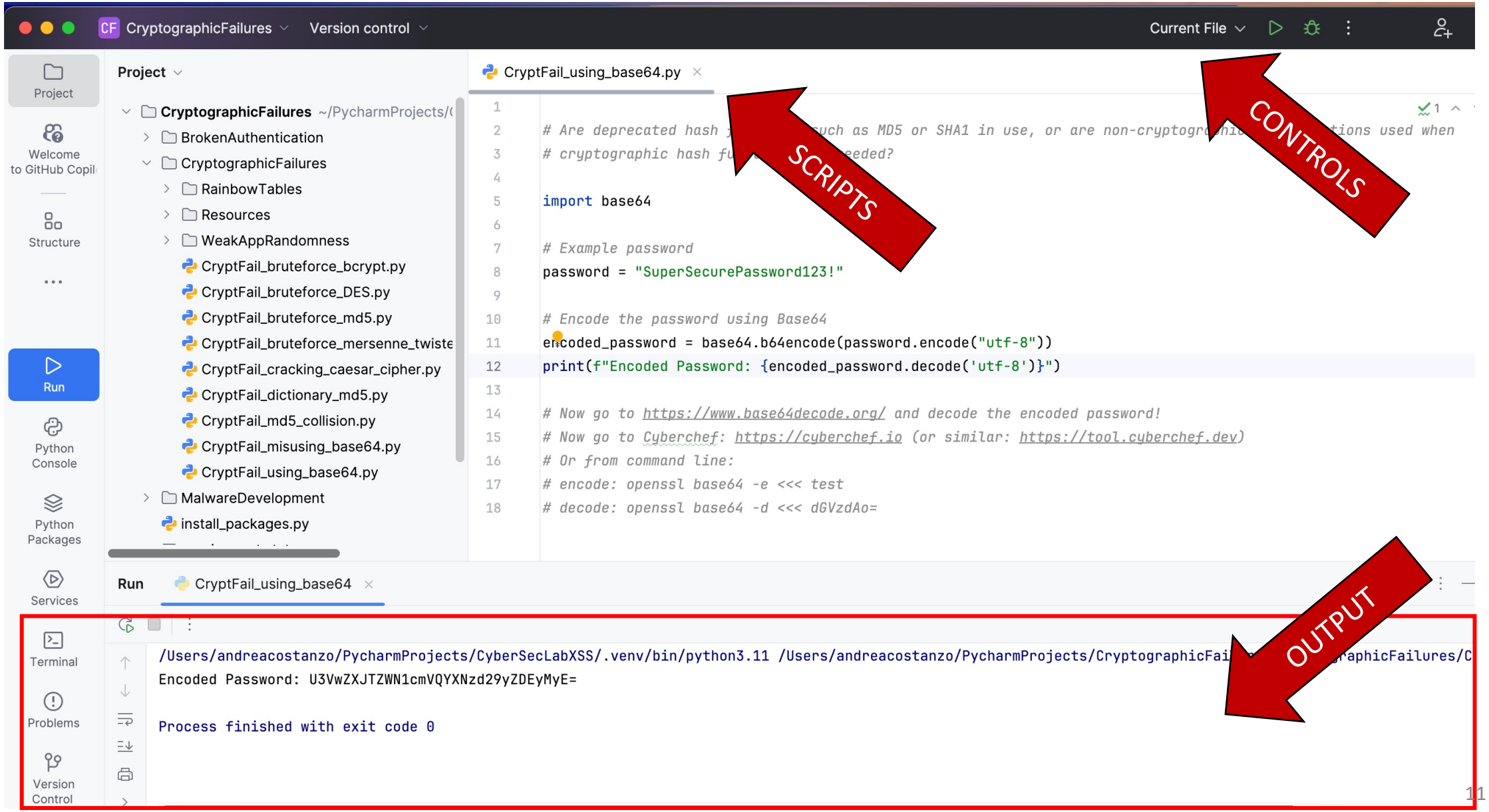
ALTERNATE INSTALL. SKIP THIS IF YOUR PACKAGES ARE ALREADY INSTALLED

- Select the *Terminal* tab
- Copy the command below by replacing the placeholders with your UNISI credentials
- Press ENTER and wait for the installation to end

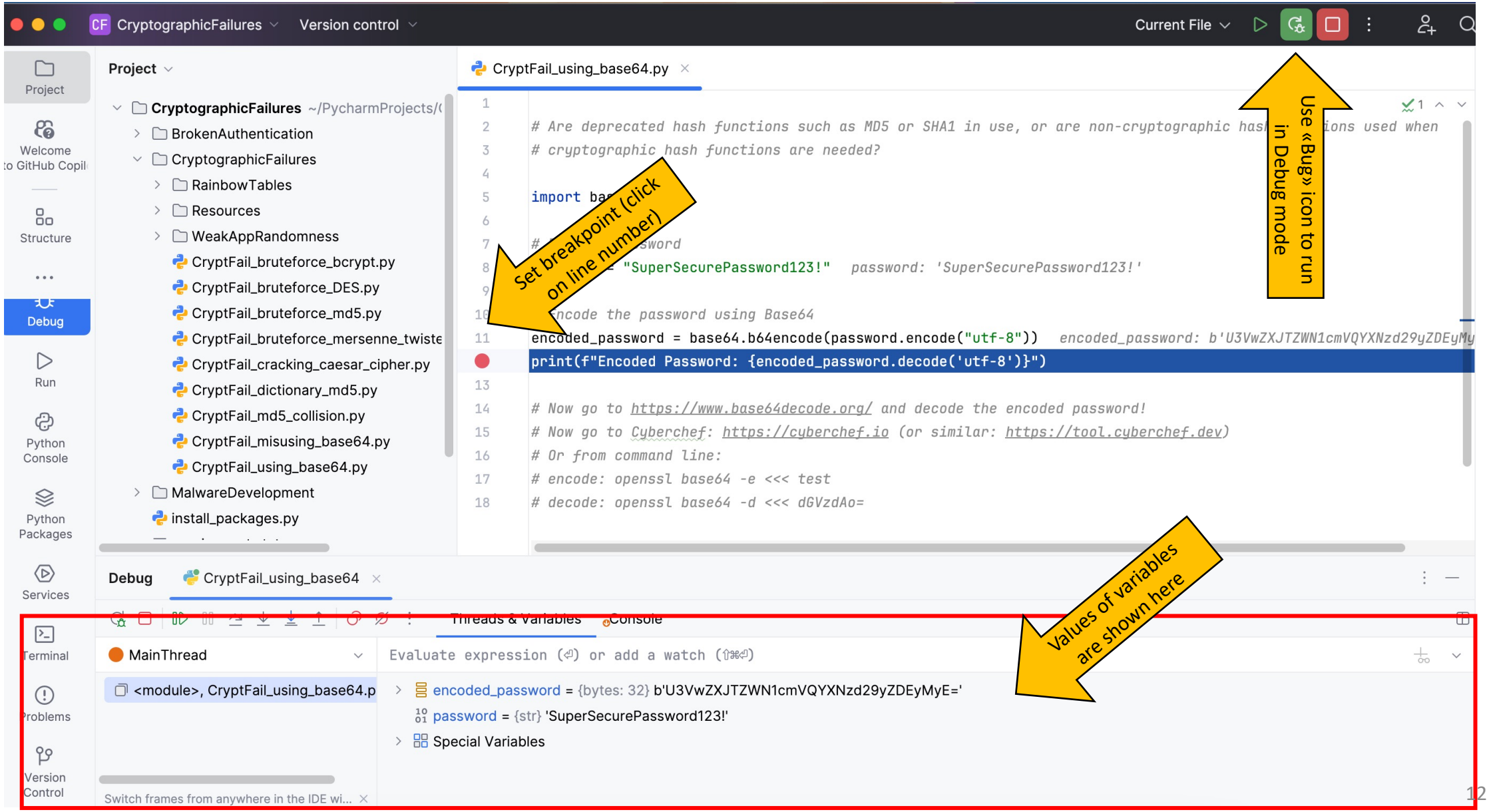



```
pip install --proxy https://<UNISIPASS_USER>:<UNISIPASS_PASSWORD>@172.16.0.200:312
-r requirements
```

8. Running your first code. Double click on a file and use the controls on the top right.



Run the code in **DEBUG MODE** to observe program's behavior or variable values



Let's get started