Python Training

Workstation Setup Guide

DataBank IMX

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DataBank
A KYOCERA GROUP COMPANY

Setting Up Your Workstation for Python Development

Performing Python development requires a few components to be installed on your workstation. You can, of course, install whatever IDE you prefer, but I will be teaching the class using Visual Studio Code (the most popular IDE for Python development) and other convenience tools that you may find useful. If you want to set up your development environment similar to mine, the instructions below will walk you through the setup process. If you're following these steps, it is best to do them in the order presented.
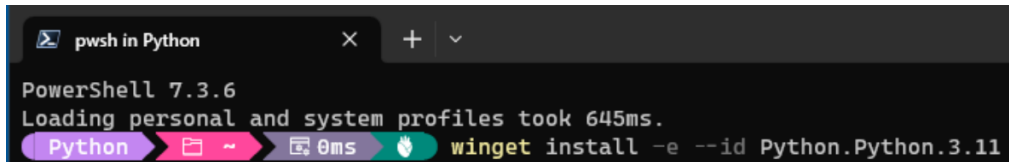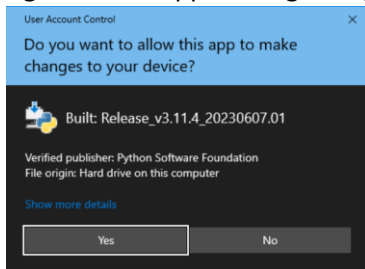
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Install Python

Before we can write and execute Python, we need to install the Python interpreter itself. The current version of Python is v3.11. This is compatible with the code examples we'll use in the course.

1. In the terminal, enter the following command
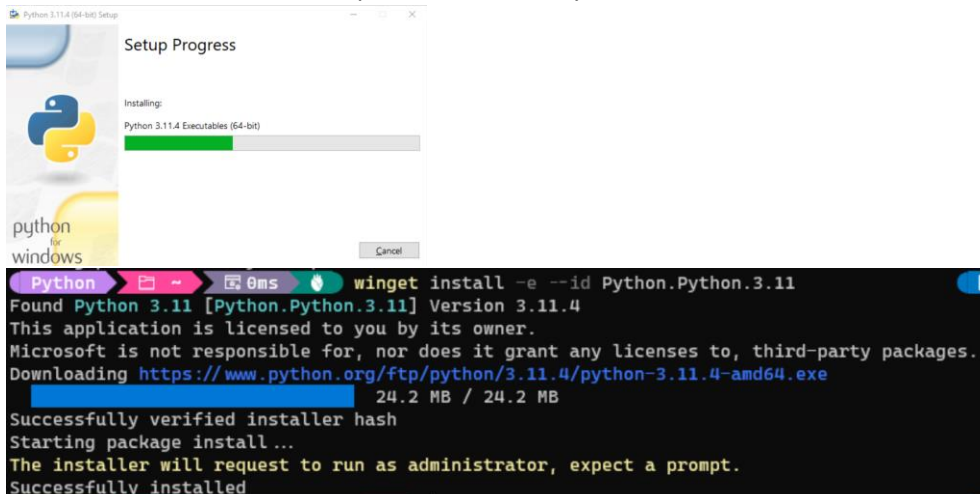   `winget install Python.Python.3.11`
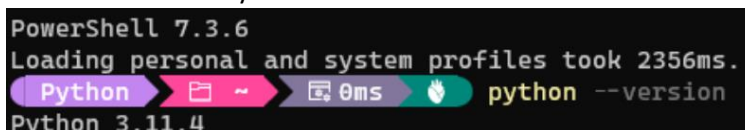

2. Agree to the app making changes

3. The installer will run and complete automatically

4. To verify that you have Python installed, enter the following in the terminal:
   `python --version`
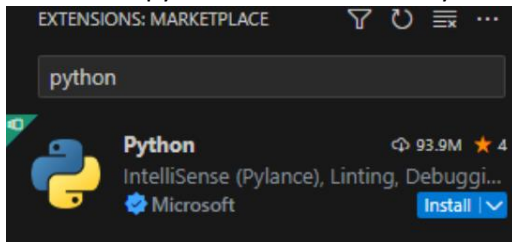   Note: You may need to reboot before this command will work

Customize Visual Studio Code

We need to set up VS Code and install a few add-ons before we're ready to start coding.
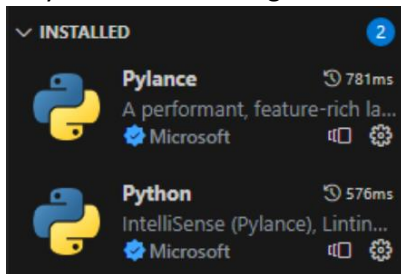
1. Click on the "extensions" icon on the sidebar
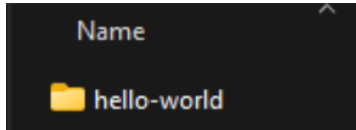
2. Search for "python" and install the Python extension

3. This also installs the Pylance component. You can install other add-ons if desired, but those are the only ones we need to get started with Python coding.
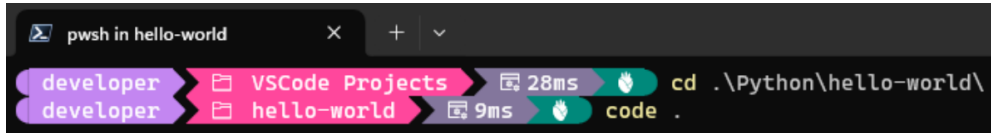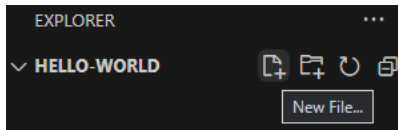
Create a Test Project in Python

1. Create a folder Named "Python," and in it, create a folder called "hello-world
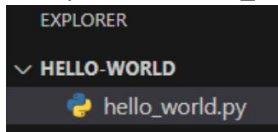
   Name

   📁 hello-world

2. Navigate to the folder and open it in VS Code

   pwsh in hello-world

   developer   📁 VSCode Projects   📷 28ms   ✋   cd .\Python\hello-world\
   developer   📁 hello-world   📷 9ms   ✋   code .

3. Click on the "new file" icon in the explorer

   EXPLORER

   ∨ HELLO-WORLD

   New File...

4. Title your file "hello_world.py"

   EXPLORER

   ∨ HELLO-WORLD

   🐍 hello_world.py

5. Enter the following code
   ```
   print("Hello World!")
   ```

   🐍 hello.py   ✕
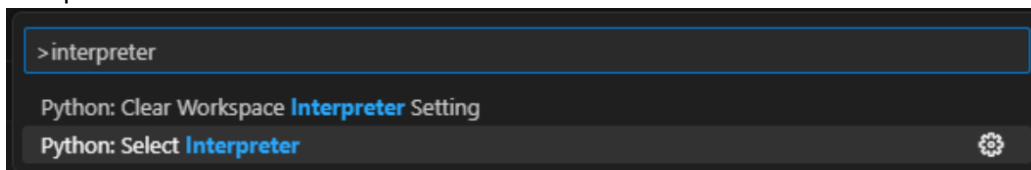
   🐍 hello.py
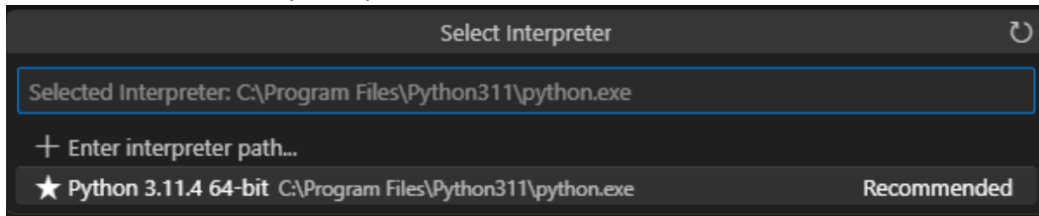   1   print("Hello World!")
   2 |
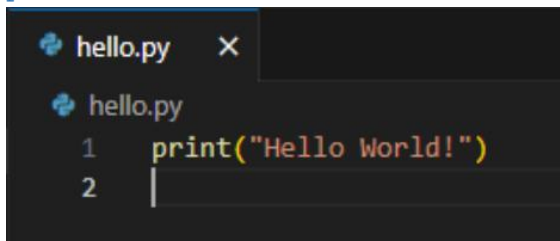
6. Press [CTRL]+[SHIFT]+[P] to bring up the menu. Search for "interpreter" and choose "Python: Select
   Interpreter"

   >interpreter

   Python: Clear Workspace **Interpreter** Setting
   Python: Select **Interpreter**   ⚙
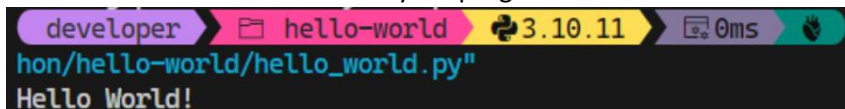
7. Choose the version of Python you installed earlier

8. Click the "Run" icon on the toolbar

9. The terminal will launch and run your program. You will see "Hello World!" in the terminal

Clone the Python Training Repository

Finally, you'll need to clone a copy of the repository to work with.

I have two different locations where this repository is stored.

- Bitbucket: https://bitbucket.org/databankimx/python-training
- GitHub: https://github.com/ZeroKlu/python-crash-course

1. For access to either repository, email smclean@databankimx.com to request access.
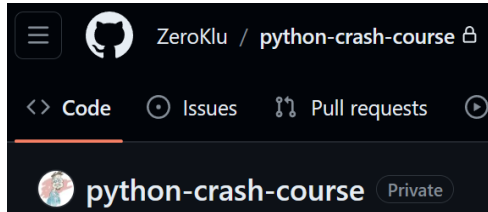
   Be sure to indicate whether you need access to Bitbucket or GitHub and provide the username you use on the selected source control system.

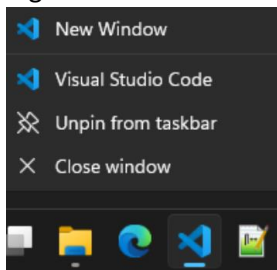2. In a browser, navigate to the repository you selected and make sure you have access.

   a. In Bitbucket, you should see this:
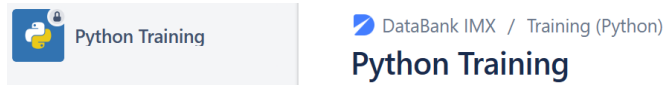
   b. In GitHub, you should see this:

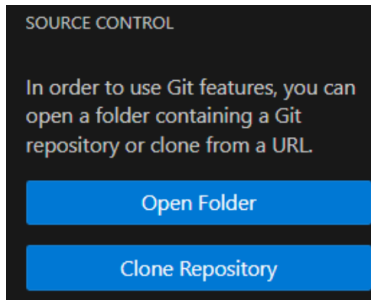3. Right-click the VS Code icon and select "New Window" to open an empty VS Code instance
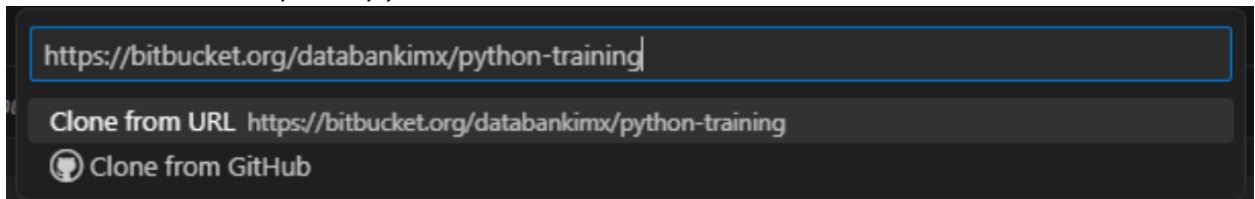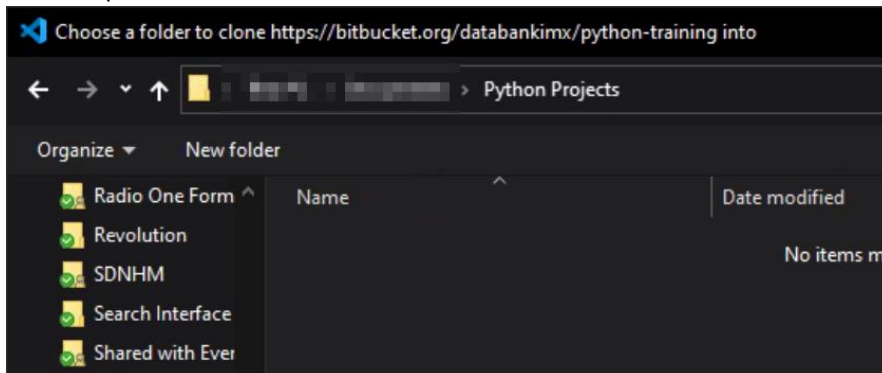

4. Click the Source Control icon on the sidebar

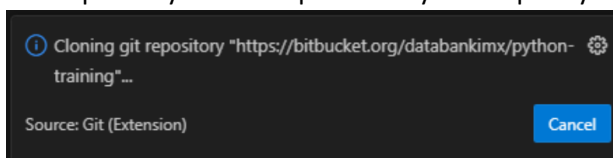5. Click the button labeled "Clone Repository"

6. Enter the URL to the repository you selected
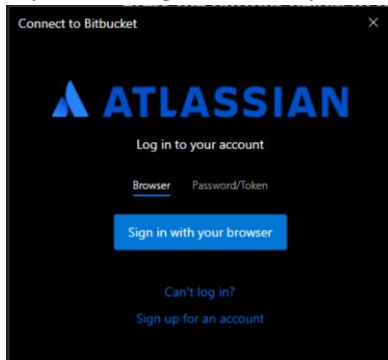

7. Select a path

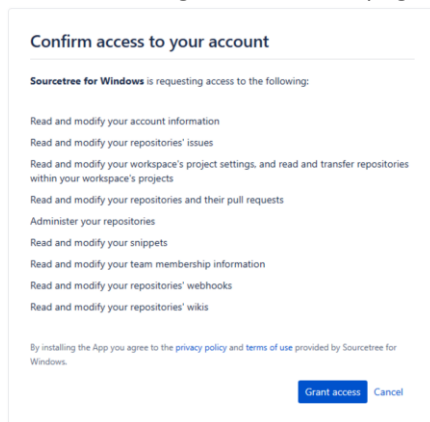8. The repository will be copied locally to the path you selected

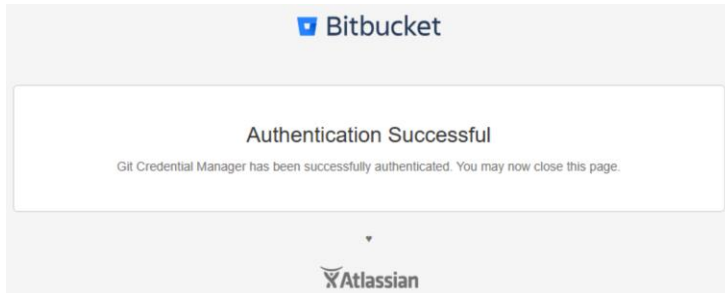9. If you are using GitHub, skip to step 13

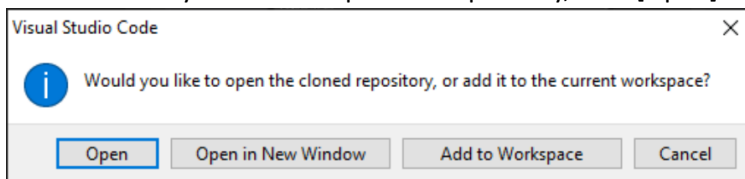10. If you're using Bitbucket, you'll be prompted to log in again

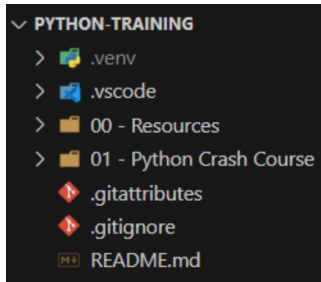11. Grant access again in the web page that opens

12. You'll see a success alert. After this, you can close the browser

13. When asked if you want to open the repository, click [Open]

14. The repository will open, and you should see a number of folders containing sample code from the textbook (with samples and commentary from me).

Congratulations! Your system is set up for Python training.

Happy Coding!