

القسم	المرحلة	المحاضرة	المادة	عنوان المحاضرة
علوم الحاسبات	الثانية	الثانية	برمجة - لغة بايثون	PyCharm IDE and Installation Guide



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PYTHON PROGRAMMING LANGUAGE



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Lecture Two PyCharm IDE and Installation Guide

1. Integrated Development Environment (IDE)

- An Integrated Development Environment (IDE) is essential for Python programming because it significantly enhances productivity and efficiency.
- While it's technically possible to write and run Python code using a simple text editor, an IDE provides a comprehensive set of tools tailored for developers:
 - **Code editing:** Syntax highlighting, auto-completion, and code formatting make writing code easier.
 - **Debugging:** Helps identify and fix errors efficiently.
 - **Testing:** Provides tools for writing and running tests.
 - **Project management:** Organizes code files and dependencies.
 - **Integration:** Often integrates with version control systems for collaborative development.
- In essence, an IDE streamlines the development process, allowing programmers to focus on writing code rather than managing the environment.
- Figure 2 show some of the most popular IDEs for Python development:

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Figure 2: Examples of some Python IDEs.

➤ In this course, we will use the **PyCharm** as an Python IDE to efficiently run our python codes.

2. How to install the PyCharm on Window?

➤ To install PyCharm on a Windows system, follow these steps:

1. Visit the PyCharm Download Page:

- Go to the [PyCharm Downloads page](https://www.jetbrains.com/pycharm/download/?section=windows) (<https://www.jetbrains.com/pycharm/download/?section=windows>).

2. Choose the Edition:

- PyCharm offers two editions:
 - **Community Edition:** Free and open-source, suitable for most Python development needs.
 - **Professional Edition:** Paid version with additional features for web development, database tools, and more.
- Click the **Download** button for the edition you want.

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3. Run the Installer:

- **Locate the Installer:** Once the download is complete, locate the installer file (.exe), usually found in your Downloads folder or the location you specified.
- **Start the Installer:** Double-click the installer file to run it.
- **Follow the Installation Wizard: Welcome Screen:** Click “Next” to proceed.
- **Installation Directory:** Choose the installation directory or use the default location, then click “Next.”
- **Select Installation Options:**
 - **Create a Desktop Shortcut:** Check this option if you want a shortcut on your desktop.
 - **Update Path Variable:** Check this option if you want to add PyCharm to your system PATH.
 - **Associate .py Files:** Check this option if you want to associate Python files with PyCharm.
- Click “Next” after selecting your options.
- **Install PyCharm:** Click “Install” to begin the installation process. The installer will copy the necessary files and set up PyCharm on your system.
- **Complete Installation:** Once the installation is complete, you can choose to run PyCharm immediately by checking the “Run PyCharm” option.
- Click “Finish” to exit the installer.