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Introduction to Python

What is Python?

- Python is a high-level, interpreted programming language known for its simplicity and readability. It was created by Guido van Rossum and first released in 1991. Python emphasizes code readability and has a large and active community of developers.

Why Python is popular and its various applications.

- Python is popular for several reasons:
  - Readability: Python code is easy to read and understand, making it ideal for beginners and collaborative projects.
  - Versatility: Python can be used for a wide range of applications, such as web development, data analysis, artificial intelligence, scientific computing, and automation.
  - Large ecosystem: Python has a vast collection of libraries and frameworks that provide ready-to-use code for various tasks, making development faster and more efficient.
  - Community support: Python has a vibrant community that offers extensive documentation, tutorials, and support, making it easy to find help and resources.

Setting up the Python environment (installing Python and a code editor).

- Editors suitable for Python, such as PyCharm, Visual Studio Code, or IDLE (the default Python IDE). Unclassified