

Introduction to Python :

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- **Python is a high - level, general - purpose programming language.** Its core design philosophy emphasizes **code readability** and **a simple, easy - to - learn syntax** that allows programmers to express concepts in fewer lines of code.
- **Python was developed by Guido Van Rossum in 1991** at the National Research Institute for Mathematics and Computer Science in Netherlands. **Guido Van Rossum named Python** by getting inspired from his favourite comedy show **Monty Python's Flying Circus**.

Features of Python :

- **Easy to read & Understand**
- **One of the most famous and Highly used High level language!**
- **Beginner - friendly**
- **It is a dynamic.**
- **It has Pseudocode nature.**
- **It is interpreted object-oriented high level language** (& yes it also supports procedural programming)
- **It is an interactive programming language** (because it provides **REPL** environment)
- **Interpreted** (code executes line by line from top to bottom)
- **Concise code** (rich library support).
- **Free and Open Source**
- **Embeddable and Extensible**
- **Portable** - works on Linux/ Windows/ Mac (Platform Independent).
- **Robust**
- **Versatile** - Web development, ML, AI, Neural networks, Data Analytics, IOT etc.