### python

Python is a high-level, interpreted programming language that is known for its simplicity**,** readability, and versatility.  
It was created by Guido van Rossum and first released in 1991.

**Key Features of Python**

1. Easy to Learn and Read – Python uses simple, English-like syntax.
2. Interpreted Language – You can run Python code directly without compiling.
3. Dynamically Typed – No need to declare variable types explicitly.
4. Portable and Open-Source – Works on any operating system (Windows, macOS, Linux).
5. Extensive Libraries – Offers many built-in and third-party libraries for all purposes.
6. Object-Oriented and Functional – Supports multiple programming paradigms.

### ****Common Uses of Python****

1. **Web Development** – Frameworks like Django, Flask.
2. **Data Science & Machine Learning** – Libraries like NumPy, Pandas, TensorFlow.
3. **Automation & Scripting** – Used for automating daily tasks.
4. **Artificial Intelligence (AI)** – Building intelligent systems and chatbots.
5. **Game Development** – Using libraries like Pygame.
6. **Cybersecurity** – Used in ethical hacking and security analysis.
7. **IoT and Robotics** – Controlling sensors, microcontrollers, and robots.