**Plan to Learn Python (Basic to Advanced)**

**1. Basics**

* Syntax, variables, and data types
* Operators and expressions
* Control flow (if-else, loops)
* Functions and modules
* Exception handling

**2. Intermediate Concepts**

* Lists, tuples, sets, and dictionaries
* List comprehensions and generators
* File handling (reading/writing files)
* Object-Oriented Programming (OOP) (classes, inheritance, polymorphism)
* Working with libraries (e.g., datetime, collections)

**3. Advanced Topics**

* Decorators and metaclasses
* Multithreading and multiprocessing
* Database handling with SQLite or PostgreSQL
* Web scraping with BeautifulSoup or Scrapy
* REST APIs with FastAPI or Flask
* Data science basics (NumPy, Pandas, Matplotlib)

**4. Specialized Learning (Choose Based on Your Interest)**

* **Machine Learning** (TensorFlow, Scikit-Learn)
* **Automation & Scripting** (Selenium, PyAutoGUI)
* **Cybersecurity** (Python for ethical hacking)
* **Game Development** (Pygame)
* **Operating System Development** (Interfacing with low-level system APIs)