Python Basics - Learning Roadmap

Core Concepts (17 topics)

1. Introduction to Python
2. Python Installation & Setup
3. Basic Syntax (Comments, Indentation)
4. Variables
5. Data Types (Numbers, Strings, Booleans, NoneType)
6. Operators (Arithmetic, Comparison, Logical, Assignment)
7. Input/Output (print(), input())
8. Control Flow (Conditional Statements: if/elif/else, Loops: for/while)
9. Break & Continue Statements
10. Lists
11. Tuples
12. Dictionaries
13. Sets
14. Functions (Definition, Call, Parameters, Return)
15. Scope (Local, Global)
16. Error Handling (try, except)
17. Modules & Packages (Importing)

Recommended Learning Order

Introduction to Python, Python Installation & Setup, Basic Syntax (Comments, Indentation), Variables, Data Types (Numbers, Strings, Booleans, NoneType), Operators (Arithmetic, Comparison, Logical, Assignment), Input/Output (print(), input()), Control Flow (Conditional Statements: if/elif/else, Loops: for/while)...