1. **Introduction to Python** (Why Python?)
2. **Python Installation and Troubleshooting**
3. **Hello World with Python**
4. **Important IDE’s for Python**
5. **Variables** (Naming and Using Variables)
6. **Data Types**
7. **Strings** (changing case, concatenation, stripping: white spacing, Syntax Errors with Strings)
8. **Numbers** (Integers, Floats, Avoid type errors with integers)
9. Comments (Understand importance of comments in coding)
10. **List** (Accessing elements in List, Indexing, Adding and Removing elements in list, Slicing in list, Methods used in List, How to Organize List, Use of Sort and loop in list, List Comprehension)
11. **Tuples** (Accessing elements in Tuple, Indexing in Tuple, Tuple Immutability, Tuple Packing and Unpacking, slicing in Tuple, Methods Used in Tuple, Iterating Through a Tuple, Use of Tuples in Python)
12. **Dictionary (**Accessing Elements in Dictionary, Dictionary Keys and Values, Adding and Updating Elements in Dictionary, Removing Elements from Dictionary, Dictionary Methods, Iterating Through a Dictionary, Nested Dictionaries, Sorting and Organizing a Dictionary, Use of Dictionary in Python)
13. **If-else Statement (**conditional test, checking equality, numerical comparison, multiple comparison, using multiple elif statements, checking multiples condition)
14. **User input** (use of input function, use int() for numerical values)
15. **Operators** (Add, Sub, Mul, Divide use for mathematical operation)
16. **Loops** (for and while loops)
17. **Functions**
18. **Object Oriented Programming** (Classes, Objects, Inheritance, Abstraction, Encapsulation, Polymorphism)
19. **Files and Exceptions**
20. **Testing your code**
21. **Projects (**Calculator App, To-Do List, Snake Gam, Number Guessing Game, Rock, Paper, Scissors, ATM function, Simple Password Generator, Unit Converter, Expense Tracker)