* **Chapter 1: Modules, Comments & pip**
  + Writing the first Python program
  + Understanding modules
  + Using pip for package management
  + Using Python as a calculator
  + Comments in Python
* **Chapter 2: Variables and Data Types**
  + Defining variables
  + Different data types in Python
  + Rules for choosing an identifier
  + Operators in Python
  + Using type() function and typecasting
  + input() function
* **Chapter 3: Strings**
  + String slicing
  + Slicing with skip values
  + String functions
  + Escape sequence characters
* **Chapter 4: Lists and Tuples**
  + List indexing
  + List methods
  + Tuples in Python
  + Tuple methods
* **Chapter 5: Dictionary & Sets**
  + Properties of dictionaries
  + Dictionary methods
  + Sets in Python
  + Properties and operations on sets
* **Chapter 6: Conditional Expression**
  + if, else, and elif statements
  + Relational and logical operators
* **Chapter 7: Loops in Python**
  + while loop
  + for loop
  + range() function
  + for loop with else
  + Break, continue, and pass statements
* **Chapter 8: Functions & Recursions**
  + Defining and calling functions
  + Recursion in Python
* **Chapter 9: File I/O**
  + Reading and writing files
  + Working with directories
* **Chapter 10: Object-Oriented Programming**
  + Classes and objects
  + Methods and attributes
* **Chapter 11: Inheritance & More on OOPs**
  + Inheritance
  + Polymorphism
  + Operator overloading
* **Chapter 12: Advanced Python 1**
  + Newly added features in Python
  + Walrus operator
  + Advanced type hints
  + Match case
  + Dictionary merge & update operators
  + Exception handling enhancements
  + Global keyword and enumerate function
  + List comprehensions
* **Chapter 13: Advanced Python 2**
  + Virtual environments
  + Lambda functions
  + String methods: join and format
  + Functional programming: map, filter, and reduce

**Projects**

* **Project 1: Snake Water Gun Game**
  + A fun and interactive game where the player competes against the computer in a variation of Rock-Paper-Scissors.
* **Project 2: Guess The Number**
  + A guessing game where the player tries to guess a randomly generated number within a certain range.
* **Mega Project 1: Jarvis Virtual Assistant**
  + A voice assistant application capable of performing various tasks such as playing music, and providing information.
* **Mega Project 2: AI AutoReply Bot**
  + An AI-based bot designed to automatically reply to messages, enhancing communication efficiency.