Python 50+ Video Playlist Outline

- 1. Introduction to Python + Installation & Setup
- 2. Your First Python Program (Hello World, print())
- 3. Variables and Data Types
- 4. Input from User & Type Casting
- 5. Operators in Python (Arithmetic, Logical, Comparison)
- 6. Strings Basics + String Methods
- 7. Escape Sequences and Comments
- 8. Numbers, Math Functions, Random Module
- 9. Lists Basics (Indexing, Slicing, Adding, Removing)
- 10. List Methods & Looping through Lists
- 11. Tuples Basics
- 12. Sets Basics
- 13. Dictionary Basics (key-value pairs)
- 14. Dictionary Methods & Looping
- 15. If-Else Statements
- 16. Nested If & Elif
- 17. While Loops Basics
- 18. For Loops Basics
- 19. Range() Function with Loops
- 20. Loop Control (break, continue, pass)
- 21. Nested Loops
- 22. Pattern Printing with Loops
- 23. Functions Basics (def, calling)
- 24. Function Parameters & Return Values

- 25. Default Arguments, Keyword Arguments
- 26. Recursion in Python (Basic Example)
- 27. Lambda Functions
- 28. Map, Filter, Reduce (Basics)
- 29. Modules in Python (import, custom modules)
- 30. Built-in Modules (math, random, datetime)
- 31. File Handling (open, read, write)
- 32. File Handling More Methods
- 33. Exception Handling (try-except)
- 34. Finally & Multiple Exceptions
- 35. Python JSON (Reading & Writing)
- 36. Lists Advanced (List Comprehension)
- 37. String Formatting (f-string, format)
- 38. Advanced String Operations
- 39. Dictionaries Advanced (Nested, Comprehension)
- 40. Sets Advanced (Operations, Union, Intersection)
- 41.Mini Projects (2-5)
- 42. Functions More Practice Examples
- 43. Object Oriented Programming Intro
- 44. Classes & Objects
- 45. Constructors & Methods
- 46. Inheritance Basics
- 47. Polymorphism & Encapsulation
- 48. Final Project