

# 100 Mini Python Project Ideas for Modular Coding

## Basics & Logic Building (1-20)

- To-Do List (CLI)
- BMI Calculator
- Number Guessing Game
- Tip Calculator
- Countdown Timer
- Rock-Paper-Scissors
- Dice Roller Simulator
- Word Reverser
- Leap Year Checker
- Area Calculator
- Fibonacci Series Generator
- Prime Number Checker
- Palindrome Checker
- Multiplication Table Generator
- Factorial Calculator
- Password Strength Checker
- Temperature Converter
- Even/Odd Sorter
- Simple Interest Calculator
- Age Calculator

## String & List Practice (21-40)

- Email Slicer
- Character Frequency Counter
- Anagram Checker
- Remove Duplicates from List
- Word Counter in Sentence
- String Compressor
- Vowel Counter
- Acronym Generator

- Caesar Cipher
- Title Case Converter
- Merge Two Lists Without Duplicates
- Find Longest Word in Sentence
- Split Full Name into First, Last
- Sentence Reverser
- Capitalize First Letter of Each Word
- Keyword Highlighter
- Substring Finder
- List Flattener
- Remove Special Characters
- Count Uppercase/Lowercase Letters

### **File Handling & CSV (41-55)**

- Log Writer
- File Line Counter
- File Word Frequency Analyzer
- Search Word in File
- File Duplicator
- CSV Reader
- CSV Writer
- CSV Filter
- Merge Two CSV Files
- CSV to Dictionary
- Create a Contact Book
- Task Logger with Timestamp
- Notes App
- Recent Activity Tracker
- Chat History Saver

### **Functions & Modular Code (56-70)**

- Calculator with Separate Functions
- Password Generator with Options
- Quiz App with Question Bank

- Bill Splitter Function
- Currency Converter with Rates File
- OTP Generator
- Loan EMI Calculator
- BMI Calculator with Validation
- Menu-Driven Mini Games App
- Reminder Tool
- Daily Planner
- Expense Logger
- Flashcard App
- API Caller Wrapper Function
- Stopwatch with Start/Stop Functions

### **APIs & External Libraries (71-85)**

- Weather App
- News Headlines Fetcher
- Joke Generator
- Dictionary App
- YouTube Video Downloader
- QR Code Generator
- Barcode Creator
- Currency Rate Fetcher
- IP Location Finder
- Movie Info App
- Random Quote App
- GitHub Profile Fetcher
- WhatsApp Message Scheduler
- Email Sender App
- Text-to-Speech Converter

### **GUI or Visual (86-90)**

- Simple Calculator (Tkinter)
- Stopwatch App (Tkinter)
- To-Do List (Tkinter)

- BMI App GUI
- Unit Converter GUI

### **Mini Games (91-95)**

- Hangman
- Tic-Tac-Toe (2-player)
- Dice Rolling Game
- Higher or Lower Game
- Typing Speed Test

### **Projects with Files + Functions + Reusability (96-100)**

- Personal Diary App
- Simple Bank System
- Student Grades Analyzer
- Attendance Tracker
- Project Management CLI Tool