# 10-Day Python Programming Training Schedule (Beginner Level)

Trainer: Vigneshwaran

Duration: 10 Days (2 Hours per Day – Flexible Full-Day Engagement for Practical/Guided Practice)

Mode: Offline / Lab-Based

Batch: Paid Beginner Students

Timings: 9:00 AM – 5:00 PM (With 2-Hour Core Class + Assisted Lab Practice)

## Daily Structure

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| Time | Session Type | Description |
| 09:00 – 09:15 AM | Orientation / Recap | Previous day recap or motivation talk |
| 09:15 – 11:15 AM | Core Class (2 Hours) | Main theory + live coding explanation |
| 11:15 – 11:30 AM | Short Break ☕ | Tea / Refresh break |
| 11:30 – 01:00 PM | Guided Practice | Students practice exercises with trainer support |
| 01:00 – 02:00 PM | Lunch Break 🍴 | — |
| 02:00 – 04:00 PM | Mini Projects / Lab Work | Task implementation, debugging, discussion |
| 04:00 – 04:45 PM | Doubt Clearing & Quiz | Q&A, revision, quiz practice |
| 04:45 – 05:00 PM | Daily Wrap-up | Summary & homework discussion |

## Day-Wise Detailed Plan

### Day 1: Introduction to Python & Setup

* History, features, versions
* Installing Python & IDE setup
* Print statements, syntax, comments
* Practical: “Hello Python World” program
* Lab Task: Create a script printing name, age, hobby

### Day 2: Variables, Data Types & Input/Output

* Variables & rules
* Data types: int, float, str, bool
* Type conversion, input() function
* Lab Task: User detail input + formatted output program

### Day 3: Operators & Expressions

* Arithmetic, logical, relational operators
* Using math library
* Expression evaluation
* Lab Task: Area/perimeter calculator

### Day 4: Conditional Statements

* if, elif, else
* Nested conditions
* Lab Task: Grade calculator / number sign checker

### Day 5: Loops (for, while)

* Loop syntax
* Range function, break, continue
* Lab Task: Multiplication table generator, factorial program

### Day 6: Strings

* String indexing, slicing, methods
* Formatting and concatenation
* Lab Task: Palindrome checker, vowel counter

### Day 7: Lists, Tuples, Sets

* List operations and methods
* Tuple & set basics
* Lab Task: Largest/smallest number finder in list

### Day 8: Dictionaries & Functions

* Dictionary operations
* Defining and calling functions
* Lab Task: Function-based grade calculator

### Day 9: File Handling & Exception Handling

* File read/write
* Try/except blocks
* Lab Task: Store student records in file and retrieve them

### Day 10: Mini Project & Assessment

* Project building & demo
* Revision & quiz
* Certificate distribution & feedback
* Mini Project Ideas: Student Management System, To-Do List App, Simple Billing System

## Learning Outcomes

✅ Write clean and structured Python code

✅ Understand variables, loops, and functions

✅ Handle files and exceptions

✅ Build basic real-world console projects