40-Day Python Logic Mastery Plan

PHASE 1: Build Foundation (23 - 31 July)

23 Jul: Variables, input(), print()

- Input name & age, print sentence

- Input 2 numbers, show sum

- Input name, show length

24 Jul: if, else, elif

- Check odd/even

- Age category: Child, Teen, Adult

- Divisible by 3 and 5?

25 Jul: for, while loops

- Print 1 to 10 using for & while

- Sum 1 to 50

- Table of user input

26 Jul: range(), nested loops, patterns

- 5x5 square of stars

- Triangle pattern

- Number triangle

27 Jul: Lists: basics

- List of fruits, update items

- Append new item, print length

28 Jul: Loops + Lists

- Even numbers from list

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- List sum, max (manual)

29 Jul: Retry 3 problems you failed

30 Jul: Journal - write struggles & wins

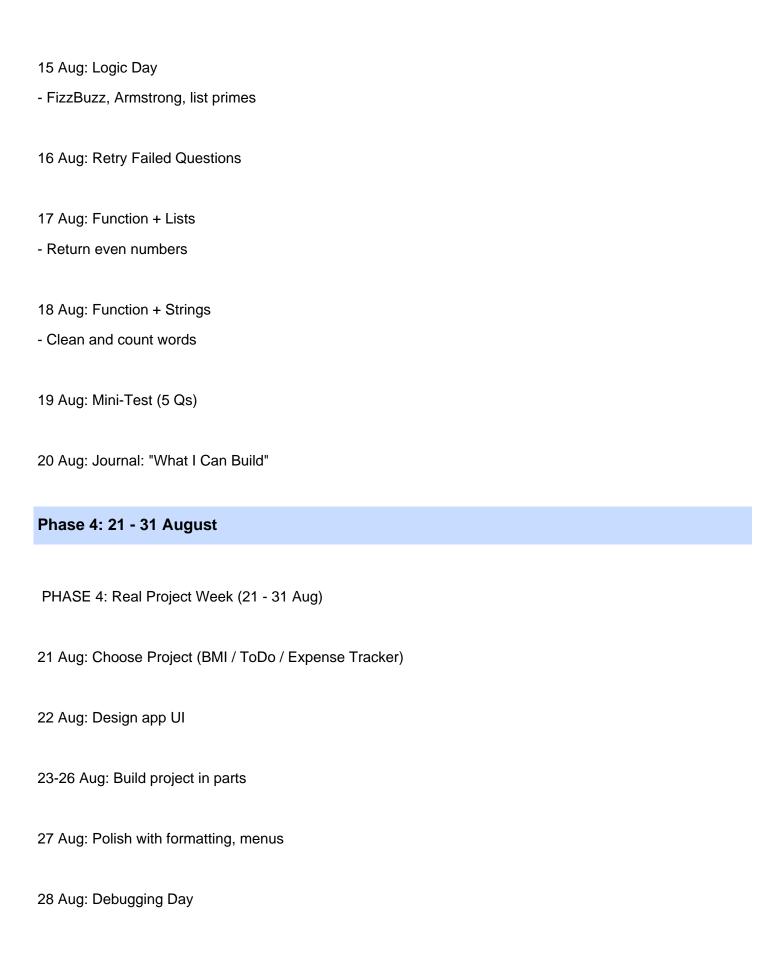31 Jul: Mock Test (5 real logic Qs)

Phase 2: 1 - 10 August

 PHASE 2: Boost Logic (1 - 10 Aug)

1 Aug: Strings
- Count vowels
- Reverse string
- Count 'a'

2 Aug: String Logic
- Palindrome check
- Capitalize first letter
- Replace 'a' with '@'

3 Aug: Lists Advanced
- Remove odds
- Manual sort
- Frequency count

4 Aug: Nested loops
- Star pyramid
- Number pyramid

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5 Aug: Edabit Easy Practice

6 Aug: Functions 1

- greet(), add(), square()

7 Aug: Functions 2

- Prime checker, factorial, vowel counter

8 Aug: Logic Quiz Day

9 Aug: Journal - logic review

10 Aug: Light practice + video

Phase 3: 11 - 20 August

 PHASE 3: Core Skills (11 - 20 Aug)

11 Aug: Dictionary

- Store name-age pairs, update/delete

12 Aug: Set & Tuple

- Remove duplicates, access elements

13 Aug: File Handling

- Write, read, append to file

14 Aug: Try-Except

- Catch divide-by-zero, input errors

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15 Aug: Logic Day

- FizzBuzz, Armstrong, list primes

16 Aug: Retry Failed Questions

17 Aug: Function + Lists

- Return even numbers

18 Aug: Function + Strings

- Clean and count words

19 Aug: Mini-Test (5 Qs)

20 Aug: Journal: "What I Can Build"

Phase 4: 21 - 31 August

PHASE 4: Real Project Week (21 - 31 Aug)

21 Aug: Choose Project (BMI / ToDo / Expense Tracker)

22 Aug: Design app UI

23-26 Aug: Build project in parts

27 Aug: Polish with formatting, menus

28 Aug: Debugging Day

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29 Aug: Add comments + explain

30 Aug: Mock Quiz (5 questions)

31 Aug: Make your own certificate!