Assessment

Module 13) Python - Fundamentals of python language

Module 14) Python - Collections, functions and Modules in Python

Case Overview

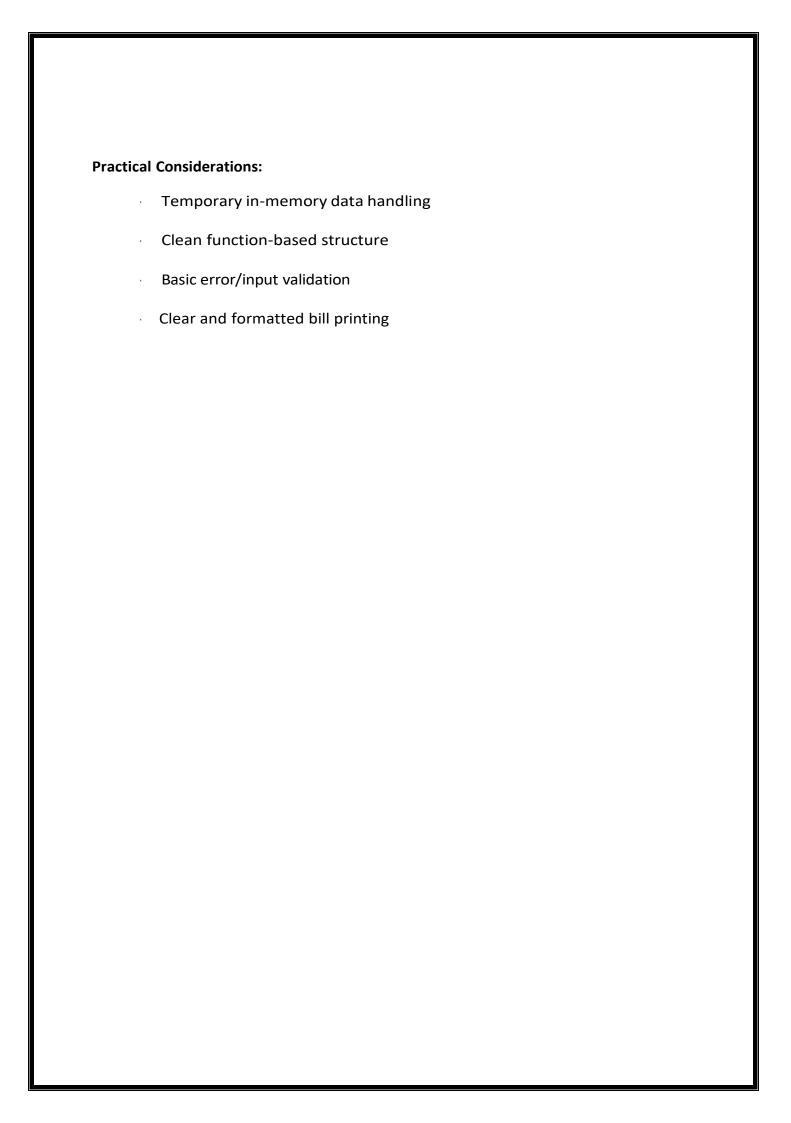
You are a trainee Python developer at **TechFix Solutions**, a fast-growing gadget repair center. Currently, the team handles repair job records using sticky notes and phone calls. This leads to **misplaced orders**, **confused billing**, and **delayed repairs**.

The company has requested a **Python-based console program**, named **FixTrack**, that allows staff to track device repair orders and generate simple bills — using only **core Python programming features**.

Core functionality	
Repair Order Booking	 Allows staff to record a new device repair order. Captures customer name, device type, issue, and due date.
Billing	 Generates invoice once the repair is complete. Calculates total based on parts replaced and repair fees. Applies tax and optional discount, then shows final amount.

Key Competencies Tested:

Python Concepts: Functions, Looping (for, while), Collections (lists, dictionaries), Input/output formatting



Can this be extended to store past repairs using file handling?
Could future versions include barcode scanning or online repair tracking?
How can parts inventory be integrated into the same system?