

## Practice questions:

### ● EASY LEVEL – *Starter Pack (All Topics Lightly Used)*

1. **Mini Bio Card Generator**
    - Ask for name, age, city, hobby → print a formatted mini "profile card".
  2. **Grocery Discount Calculator**
    - Ask user for item price. If over ₹500, apply 10% discount. Else no discount.
  3. **Number Guesser (One Attempt)**
    - Use random module to generate number. Ask user to guess. Show win/lose.
  4. **Movie Time Checker**
    - Ask user for current time (24hr format). If time < 12, say "Morning show", else "Evening show".
  5. **Leap Year Checker with Function**
    - Input year, use a function to return True/False if it's a leap year.
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### ● MEDIUM LEVEL – *Logic Builders (Loops + Conditionals + Functions)*

1. **Simple Quiz Game (with Scoring)**
  - Ask 3–5 questions in a loop
  - Track score
  - Use functions like ask\_question(), show\_result()
2. **Number Analyzer**
  - Take number input and return:
    - Even/Odd
    - Prime/Not
    - Positive/Negative
3. **Basic ATM Simulation**
  - Login → Show menu: Withdraw, Deposit, Balance Check
  - Use loop and functions
  - Block if wrong password after 3 tries
4. **Online Food Order Bot**
  - Show a menu (Pizza, Burger, Fries)

- User selects item and quantity
- Calculate total cost and apply delivery charge if total < ₹200

#### 5. **Hotel Room Price Splitter**

- Take number of people, days, and room rate
  - Calculate and split bill per person
  - If >3 people, apply group discount
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### **HARD LEVEL – Real-World Problems With Layers**

#### 1. **Student Record System**

- Take input for 5 students: name, age, marks
- Store in list of dictionaries
- Find:
  - Topper
  - Average marks
  - Students with marks > 90

#### 2. **Password Strength Validator**

- Input password
- Use function to check:
  - At least 8 chars
  - 1 uppercase, 1 lowercase
  - 1 digit, 1 special character
- Return if “Weak”, “Medium”, or “Strong”

#### 3. **Library Management System (Basic)**

- Book inventory using dictionary
- Show menu: Borrow, Return, View books
- Update stock accordingly
- Handle if book not available

#### 4. **Number Pattern Generator**

- Input a number, generate:

```
python-repl

1
1 2
1 2 3
...
```

## 5. Mini Shopping Cart System

- Show item list
- Let user add to cart
- After "checkout", show:
  - Total price
  - Items bought
  - Any discount