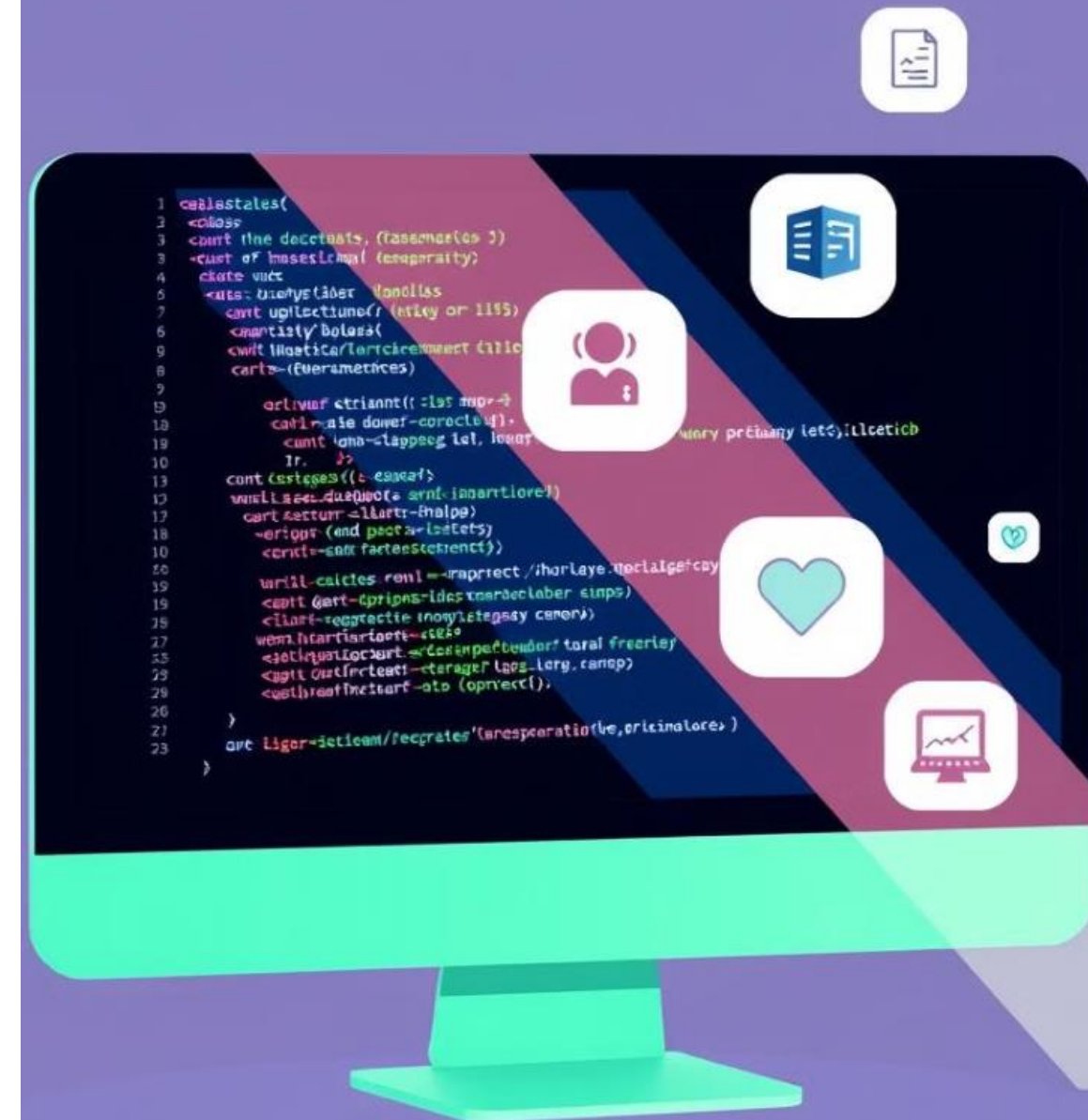


Python Practice Projects

Explore the world of Python programming with these engaging projects.



Interactive Quiz System

Objective: A quiz that asks multiple-choice questions and validates answers.

Features

- Input: User answers.
- Output: Print results with proper formatting.
- Data Types: Integer and string inputs.
- Type Casting: Convert answers to integers for validation.
- String Slicing: Extract parts of the answers.
- Loops: Allow user to retake the quiz.
- If-Else: Check if answers are correct.

Design

- Ask for name and age.
- Display question and choices.
- Validate user's response using if-else.
- Output score at the end.

Student Management System

Objective: Manage student profiles with grades and information..

Features

- User Input: Input birthdate.
- If-Else: Check if birthday has passed this year.
- Time Module: Use current date to calculate age.
- Type Casting: Convert user input to integers.

Design

- Input birthdate (day, month, year).
- Use time module to get current date.
- Calculate and display age.

Voting System

Objective: Cast votes for candidates and tally results.

Features

- If-Else: Validate user input.
- Match-Case: Assign votes to candidates.
- Operators: Count and compare votes.
- Loops: Repeat voting process.

Design

- Display list of candidates.
- Prompt user for vote.
- Tally votes and display results.

Currency Converter

Objective: Convert between different currencies.

Features

- Type Casting: Convert currency amount to float.
- If-Else: Validate selected currencies.
- String Methods: Format currency output.
- Loops: Allow repeated conversion

Design

- Input amount and currencies.
- Validate and convert currencies.
- Display result in formatted output.