

Python Assignment: The Quiz Master Game!

Objective: Build a fun and interactive text-based quiz game in Python. The program will test the user with a set of questions, evaluate their answers, assign grades, and provide feedback using Python fundamentals.

Concepts Covered:

- `if-else` conditions
 - loops
 - lists and dictionaries
 - list comprehension & dictionary comprehension
 - user input and loops
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Assignment Scenario:

You are hired to create a mini "Quiz Master" game! This game will:

1. Ask multiple questions to the player.
 2. Evaluate the answers and keep a score.
 3. Assign a grade at the end based on performance.
 4. Show which questions were correct or incorrect.
 5. Allow the player to replay the quiz if they wish.
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Assignment Instructions:

Task 1: Create the Question Bank

- Create a Python dictionary named `questions`.
- Keys should be the questions (strings) and values should be the correct answers (strings).

Task 2: Build the Quiz Logic

- Loop through each question.
- Prompt the user for an answer using `input()`.
- Use `if-else` to check if the answer is correct.
- Keep a `score` counter for correct answers.

Task 3: Grade the User

- After the quiz ends, assign grades based on this:

Correct Answers Grade

5	A+
4	A
3	B
2	C
1 or 0	F

Use `if-else` statements to determine the grade and display it.

Task 4: Use List Comprehension

- Create a list of all questions the user got wrong using `list comprehension`.
- Print this list at the end.

Task 5: Use Dictionary Comprehension

- Create a dictionary with the question as the key and `Correct/Incorrect` as the value depending on the user's answers.

Task 6: Add a Replay Feature

- After each game session, ask the user if they'd like to play again.
- Use a `while loop` to allow the game to restart if the answer is "yes".

Bonus:

- Add a timer or a random question generator for extra fun.
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Deliverables:

1. `.py` file with your code.
 2. Screenshot of the game running.
 3. (Optional) Your creative twists on the game (extra features or custom messages).
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Have fun and happy coding!