

TASK 4

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#include <iostream>

#include <string>

#include <map>

using namespace std;

// Question structure
struct Question {
    string questionText;
    string correctAnswer;
};

// Quiz class
class Quiz {
private:
    map<string, Question> questions;
    int score;
public:
    Quiz() : score(0) {}

    // Add a question to the quiz
    void addQuestion(const string& question, const string& correctAnswer) {
        questions[question] = {question, correctAnswer};
    }

    // Display questions and calculate score
    void startQuiz() {
        score = 0;
        for (auto& kv : questions) {
```

```

        cout << kv.second.questionText << endl;

        string userAnswer;

        cout << "Your answer: ";

        getline(cin, userAnswer);

        if (userAnswer == kv.second.correctAnswer) {

            cout << "Correct!" << endl;

            score++;

        } else {

            cout << "Incorrect. Correct answer: " << kv.second.correctAnswer << endl;

        }

        cout << endl;

    }

    cout << "Quiz ended. Your score: " << score << " out of " << questions.size() << endl;

}

};

```

```

int main() {

    Quiz quiz;

    // Add questions

    quiz.addQuestion("What is the capital of France?", "Paris");

    quiz.addQuestion("Who wrote 'Romeo and Juliet'?", "William Shakespeare");

    quiz.addQuestion("What is the chemical symbol for water?", "H2O");

    // Start quiz

    cout << "Welcome to the Online Quiz Game!" << endl;

    cout << "Answer the following questions:" << endl;

    quiz.startQuiz();

    return 0;

}

```