**CODE**

**include <iostream>**

**#include <string>**

**#include <vector>**

**using namespace std;**

**// Question structure**

**struct Question {**

**string question;**

**string options[4];**

**int correctAnswer;**

**};**

**// Quiz class**

**class Quiz {**

**private:**

**vector<Question> questions;**

**int score;**

**public:**

**Quiz() {**

**score = 0;**

**}**

**void addQuestion(Question q) {**

**questions.push\_back(q);**

**}**

**void displayQuestions() {**

**for (int i = 0; i < questions.size(); i++) {**

**cout << "Question " << i + 1 << ": " << questions[i].question << endl;**

**for (int j = 0; j < 4; j++) {**

**cout << j + 1 << ". " << questions[i].options[j] << endl;**

**}**

**int answer;**

**cout << "Enter your answer (1-4): ";**

**cin >> answer;**

**if (answer == questions[i].correctAnswer) {**

**score++;**

**cout << "Correct!" << endl;**

**} else {**

**cout << "Incorrect. Correct answer: " << questions[i].options[questions[i].correctAnswer - 1] << endl;**

**}**

**}**

**}**

**void displayScore() {**

**cout << "Your final score: " << score << "/" << questions.size() << endl;**

**}**

**};**

**int main() {**

**Quiz quiz;**

**// Add questions**

**Question q1 = {"What is 2+2?", {"3", "4", "5", "6"}, 2};**

**Question q2 = {"What is the colour of Apple?", {"Red", "Orange", "Blue", "Black"}, 1};**

**quiz.addQuestion(q1);**

**quiz.addQuestion(q2);**

**// Display questions**

**quiz.displayQuestions();**

**// Display score**

**quiz.displayScore();**

**return 0;**

**}**