import java.util.Scanner;

class Question {

String text;

String[] options;

char correctAnswer;

// Constructor to initialize question details

public Question(String text, String[] options, char correctAnswer) {

this.text = text;

this.options = options;

this.correctAnswer = correctAnswer;

}

}

public class QuizApp {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Create an array of quiz questions

Question[] questions = {

new Question("What is the capital of France?",

new String[]{"A. Paris", "B. London", "C. Rome", "D. Madrid"}, 'A'),

// Add more questions here...

};

int totalQuestions = questions.length;

int score = 0;

System.out.println("Welcome to the Quiz App!");

System.out.println("You have " + totalQuestions + " questions to answer.");

// Loop through each question

for (int i = 0; i < totalQuestions; i++) {

Question currentQuestion = questions[i];

System.out.println("\nQuestion " + (i + 1) + ": " + currentQuestion.text);

for (String option : currentQuestion.options) {

System.out.println(option);

}

System.out.print("Your answer (A/B/C/D): ");

char userAnswer = scanner.next().toUpperCase().charAt(0);

if (userAnswer == currentQuestion.correctAnswer) {

System.out.println("Correct! You earned 10 points.");

score += 10;

} else {

System.out.println("Incorrect. The correct answer was " + currentQuestion.correctAnswer);

}

}

System.out.println("\nQuiz completed!");

System.out.println("Your final score: " + score + " out of " + (totalQuestions \* 10));

scanner.close();

    }

}