```
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;
class Question {
  private String questionText;
  private List<String> options;
  private int correctAnswerIndex;
  public Question(String questionText, List<String> options, int correctAnswerIndex) {
    this.questionText = questionText;
    this.options = options;
    this.correctAnswerIndex = correctAnswerIndex;
  }
  public String getQuestionText() {
    return questionText;
  }
  public List<String> getOptions() {
    return options;
  }
  public int getCorrectAnswerIndex() {
    return correctAnswerIndex;
  }
}
class Quiz {
  private List<Question> questions;
  private int score;
```

```
public Quiz() {
    this.questions = new ArrayList<>();
    this.score = 0;
  }
  public void addQuestion(Question question) {
    questions.add(question);
  }
  public Question getQuestion(int index) {
    return questions.get(index);
  }
  public int getSize() {
    return questions.size();
  }
  public void incrementScore() {
    score++;
  }
  public int getScore() {
    return score;
  }
public class QuizApplication {
  public static void main(String[] args) {
    Quiz quiz = new Quiz();
    quiz.addQuestion(new Question("What is the capital of France?",
```

}

```
List.of("Paris", "Berlin", "London", "Madrid"), 0));
    quiz.addQuestion(new Question("What is 2 + 2?", List.of("3", "4", "5", "6"), 1));
    Scanner scanner = new Scanner(System.in);
    for (int i = 0; i < quiz.getSize(); i++) {
       Question currentQuestion = quiz.getQuestion(i);
       System.out.println("Question" + (i + 1) + ": " + currentQuestion.getQuestionText());
       List<String> options = currentQuestion.getOptions();
       for (int j = 0; j < options.size(); j++) {
         System.out.println((j + 1) + "." + options.get(j));
      }
       System.out.print("Enter your answer (1-" + options.size() + "): ");
       int userAnswerIndex = scanner.nextInt() - 1;
       if (userAnswerIndex == currentQuestion.getCorrectAnswerIndex()) {
         quiz.incrementScore();
         System.out.println("Correct!\n");
       } else {
         System.out.println("Incorrect. The correct answer is: " +
              options.get(currentQuestion.getCorrectAnswerIndex()) + "\n");
      }
    }
    System.out.println("Your score: " + quiz.getScore() + "/" + quiz.getSize());
  }
}
```