# Source Code

import java.util.\*;

class Question {

private String questionText;

private String[] options;

private int correctOptionIndex;

public Question(String questionText, String[] options, int correctOptionIndex) {

this.questionText = questionText;

this.options = options;

this.correctOptionIndex = correctOptionIndex;

}

public String getQuestionText() {

return questionText;

}

public String[] getOptions() {

return options;

}

public boolean isCorrect(int selectedOption) {

return selectedOption == correctOptionIndex;

}

}

class Quiz {

private List<Question> questions;

private int score;

public Quiz(List<Question> questions) {

this.questions = questions;

this.score = 0;

}

public void start() {

Scanner scanner = new Scanner(System.in);

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

System.out.println("====================================");

for (Question question : questions) {

System.out.println(question.getQuestionText());

String[] options = question.getOptions();

for (int i = 0; i < options.length; i++) {

System.out.println((i + 1) + ". " + options[i]);

}

System.out.print("Enter your answer (1-" + options.length + "): ");

int selectedOption = scanner.nextInt();

if (question.isCorrect(selectedOption - 1)) {

System.out.println("Correct!");

score++;

} else {

System.out.println("Incorrect!");

}

System.out.println();

}

System.out.println("Quiz complete!");

System.out.println("Your score: " + score + "/" + questions.size());

scanner.close();

}

}

public class QuizApplication {

public static void main(String[] args) {

List<Question> questions = new ArrayList<>();

questions.add(new Question("What is the capital of India?",

new String[]{"New Delhi", "Andhra Pradesh", "Rajasthan", "Jaipur"}, 0));

questions.add(new Question("What is the capital of Japan?",

new String[]{"Tokyo", "Beijing", "Seoul", "Bangkok"}, 0));

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

new String[]{"Paris", "London", "Berlin", "Rome"}, 0));

questions.add(new Question("What is the capital of USA?",

new String[]{"Washington, D.C", "California", "New York", "Texas" }, 0));

questions.add(new Question("What is the capital of UK?",

new String[]{"London", "England", "Scotland", "Wales" }, 0));

Quiz quiz = new Quiz(questions);

quiz.start();

}

}