Import java.util.ArrayList;

Import java.util.List;

Import java.util.Scanner;

Public class Quiz {

Private List<Question> questions;

Private int score;

Public Quiz() {

Questions = new ArrayList<>();

Score = 0;

}

Public void addQuestion(Question question) {

Questions.add(question);

}

Public void removeQuestion(Question question) {

Questions.remove(question);

}

Public void startQuiz() {

Scanner scanner = new Scanner(System.in);

For (Question question : questions) {

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

String[] answerOptions = question.getAnswerOptions();

For (int i = 0; i < answerOptions.length; i++) {

System.out.println((i + 1) + “. “ + answerOptions[i]);

}

System.out.print(“Enter your answer: “);

Int userAnswer = scanner.nextInt();

If (userAnswer == question.getCorrectAnswer()) {

Score++;

}

}

System.out.println(“Your final score is: “ + score + “ out of “ + questions.size());

}

Public static void main(String[] args) {

Quiz quiz = new Quiz();

Question question1 = new Question(“What is the capital of France?”,

New String[]{“Paris”, “Madrid”, “Rome”, “Berlin”},

1);

Question question2 = new Question(“What is the largest planet in our solar system?”,

New String[]{“Venus”, “Jupiter”, “Mars”, “Neptune”},

2);

Quiz.addQuestion(question1);

Quiz.addQuestion(question2);

Quiz.startQuiz();

}

}

Class Question {

Private String question;

Private String[] answerOptions;

Private int correctAnswer;

Public Question(String question, String[] answerOptions, int correctAnswer) {

This.question = question;

This.answerOptions = answerOptions;

This.correctAnswer = correctAnswer;

}

Public String getQuestion() {

Return question;

}

Public String[] getAnswerOptions() {

Return answerOptions;

}

Public int getCorrectAnswer() {

Return correctAnswer;

}

}

