

Sarosh Ranji

Juan Arias

Software Development 1

Project 2 Writeup

For my final project I built an application that creates a multiple-choice test. The first class that I created was the question class. The question class initializes the object question and makes it so that the prompt should be entered before the answer. The last part of what the question class does is make this.prompt equal to the question prompt and this.answer equal to the questions answer.

For App.java which is connected to the file and class Question.java the first thing I did was import a scanner. To store the questions, I created an array of Strings. Each string stores the question and the answer choices. The question array first uses the name of the string and then it stores the correct answer alongside of it. The numbers of the strings can be used to print them out in a specific order and it is possible to use any amount of them. I then created a method called takeTest to run the multiple-choice test. Inside of the takeTest method I created a score object and allow the user to enter their own answer. The next part of the method is the for loop. The for loop goes through all of the questions no matter how many there are. If the answer the user selects is the same as the question's answer, then it will add one point to the score. The final score for the user is their score divided by the number of questions, which the test will print on its own once it has been completed.

The user will have to answer the questions one by one. Once the user answers a question it will either increase the score by one point if it is right or leave it the same if it is incorrect. However, the user will not see this action. They will keep answering questions one by one until they finish the whole test. After it is finished the user will see their score and the test is finished.

For this program app was the superclass. Inside of app there was the question array with parameters already set from another class. The take test method is also used inside the class app. Take test contains the for loop, calculates and prints the score.

The final result is an application that can run a quiz in a set order of questions. The number of questions and order can be easily changed but it would have to be inside the code. I should have included a question bank in one of the files that I could pull more questions from. To create this application I had to use classes, methods, for loops, strings, arrays, and a scanner.