GEOG 384 Second Quiz: Functions
October 5, 2023

You are a software developer who is writing an educational app that generates quizzes. It goes through a series of questions and checks whether the student answer to a question is correct. For example, a sample question could be "What is the capital of Canada?". The correct answer is "Ottawa". If the student answers "Toronto" then the answer is wrong.

Your employer has given you a set of three questions and answers. Your employer also wants to set different points awarded for each question so your code must support that.

When the app is launched, it will display the question and prompt the user for an answer three times, one for each question. The app will keep score in the background and deliver a "score card" at the end that tells the user their total score for the quiz.

Remember if you cannot figure out the code, or your code is not working, write what the code should do as Javascript comment statements for partial marks.

YOU MAY NOT HAVE ANY OUTSIDE WEBSITE (w3 schools etc.) OPEN DURING THIS QUIZ. YOU ARE REQUIRED TO HAVE A TEXT EDITOR (SUBLIME ETC.) AND A BROWSER OPEN. YOU MAY ONLY USE THE BROWSER TO TEST YOUR CODE.

Start by opening https://neogeoweb.ca/quiz/quiz2.txt. There you will find the questions and answers.

Start a document in your rich text editor (Sublime Text, notepad++ or otherwise). Save the document as *lastname-quiz2.html* (replacing lastname with your last name).

Write a minimal html page structure (you don't need much). Include a paragraph that has an id, which you will need later.
- `<p id="scorecard"></p>`

In the Javascript area declare at least the following variables:
- Six variables, one each for all your questions and answers. Make sure you use a clear naming syntax. Copy and paste the questions and answers from the .txt file to save time
- A variable to keep track of the total score
- A variable that increments to keeps track of the current question number

Write a function. Give it a name. The function must:
- Accept the following parameters: question, answer, score.
- Keep track of which question the student is on.
- Prompt the student to get their answer to a question.
-

```
var userAnswer = prompt(question);
```

- Compare the student's answer to the correct answer.
- Output a message informing the student whether or not the answer was correct. The output for the correct answer should be "Your answer for question #1 is correct", replacing the #1 with the variable that is tracking the current question number.
- Output a similar message for an incorrect answer.

```
document.getElementById("scorecard").innerHTML = "insert message you are
outputting";
```

- Return the score if the answer was correct; 0 if not.

Call this function three times.[1] Each time you call your function you will provide a score for the correct answer. The score for each question needs to be different; choose whatever number you want.

Finish by outputting a message to the screen with the total score. If you have time, try customizing this message for good and bad results – might get you an extra partial marks.

Comment your code as necessary to help us understand your logic. Email your *lastname-quiz2.html* document to renee.sieber@mcgill.ca and sichen.wan@mail.mcgill.ca

---

[1] Yes, you could do this quiz with loops and arrays. But you haven't done that yet in codeacademy, which explains some of the instructions.