Assignment #1: Candidate Testing

OK, staff, we received many applications for our astronaut training program, and we need to do an initial evaluation of the candidates. Management needs you to create a quick quiz to help select the best candidates.

Note

The requirements below are what your END assignment will look like. This assignment is broken down so you can complete small pieces as you go. You need to move sequentially starting at Part 1. Please read the WHOLE assignment page before starting.

Requirements

- 1. Use functions to complete the following:
 - 1. Ask the candidate (user) to enter their name
 - 2. Use a loop to ask five questions, one at a time, to the candidate
 - 3. Collect the candidate's answers
 - 4. Check those answers for accuracy (case insensitive equality check)
 - 5. Calculate the candidate's overall percentage
 - 6. Determine if the candidate did well enough to enter our program (need >= 80% to pass)
 - 7. Display the results.

Take It Step by Step

When starting any project, it's best to approach it as a series of smaller, testable parts. The goal is to get simple parts working first and then expand the code in a systematic way. The following is NOT the only way to complete this assignment, but it provides a framework for thinking through the project.

Get the Starter Code

Fork this repl.it <u>regions (https://replit.com/@launchcode/candidate-testing-assignment-data-analysis).</u>

Part 1: Minimum Viable Quiz

1.1 candidate_name

- a. Ask for the candidate's name. Look for **TODO 1.1a** in the starter code. On the line below this TODO comment, prompt the user for their name and store the value in a variable called **candidate_name**.
- b. Look for **TODO 1.1b**. Underneath it, write a message to the console greeting the user using the name they just provided via your **ask_for_name** function.

1.2 Single Question Quiz

- a. Ask the user to answer a single quiz question. Look for TODO 1.2a. Below the TODO comment, assign the variables called question, correct_answer, and candidate_answer.
 - question should be assigned the following string: "Who was the first American woman in space?".



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- correct_answer should be initialized to "Sally Ride".
- candidate_answer will initially be set to the empty string.
- b. Find TODO 1.2b. Using your question variable, display the question and prompt the candidate for their answer. Store their response in one of the variables you defined just above.
- c. Under TODO 1.2c, check the candidate's answer to see if it is correct. Provide basic feedback to the candidate, letting them know if their answer is correct or not.



Make sure your small app works properly before moving on to part 2.

Part 2: Multiple Questions

Now that your small app is working, expand it to deal with multiple questions. This time, you only have one TODO item in the starter code. You will need to determine which lines need to be modified.

- 1. Define questions and correct_answers variables as lists. Use the table below to fill these lists.
- 2. Replace your code from **TODO 1.2b** with a loop that programmatically asks each question in the list and stores the user's responses.
- 3. Replace the basic feedback from TODO 1.2c with a template literal that displays each of the candidate's responses in addition to the corresponding correct answers.

Question Answer

Who was the first American woman in "Sally Ride"

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True or false: 5 kilometer == 5000 meters? "true"

(5+3)/2*10=? "40"

Given the list [8, 'Orbit', 'Trajectory', "Trajectory"

45], what entry is at index 2?

What is the minimum crew size for the ISS? "3"

A Warning

Keep the questions and correct answers stored in this exact order. Feel free to copy-paste the questions and correct answers from the table to help avoid extraneous autograding errors.

Part 3: Grade the Quiz

Finally, calculate the candidate's score and print the results. There are no **TODOs** in this section.

Your task here is to:

- 1. Compare the candidate answers with the correct answers,
- 2. Calculate the candidate's score as a percentage,
- 3. Convey to the candidate if they have passed the quiz with an 80% or if they have failed.

Some tips:

- 1. Checking for the correct answer should be case insensitive (e.g. "Orbit" is the same as "orbit").
- 2. Somewhere below **TODO 1.2c** you should see a variable called **grade**. Use this to calculate the candidate's score.
- 3. To calculate the candidate's percentage, use the equation:

Example OutputContents (../index.html) / Assignment #1: Candidate Testing

The results output should include the candidate's name, the candidate's responses, the correct answers, the final percentage, and if the candidate passed the quiz.

Candidate Name: Can Twin 1) Who was the first American woman in space? Your Answer: sally ride Correct Answer: Sally Ride 2) True or false: 5000 meters = 5 kilometers. Your Answer: false Correct Answer: true 3) (5 + 3)/2 * 10 = ?Your Answer: 45 Correct Answer: 40 4) Given the list [8, "Orbit", "Trajectory", 45], what entry is at index 2? Your Answer: trajectory Correct Answer: Trajectory 5) What is the minimum crew size for the ISS? Your Answer: 10 Correct Answer: 3 >>> Overall Grade: 40% (2 of 5 responses correct) <<< >>> Status: FAILED <<<

Note

The output will vary slightly based on the candidate's answers to each question.

Submitting Your Work

When your program meets the requirements and the output looks roughly like the example above, you've finished your assignment and can submit the url to your repl.it in your Canvas assignment.

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