

09.1 - Capital Quiz

Write a function named `get_state_data` that loads state capital data from the provided file `state_capitals.txt`. The function should then return this data as a dictionary with the state names as keys and the state capitals as values. Your program may assume that the state names are unique, but must not assume that the state capital names are unique.

Then write the main function of this program so that it will quiz the user by asking them to enter the capital for a particular state. The states should be asked in a randomized order and the answers should not be case sensitive. If the user answers correctly, that state should not be asked again, but if the user answers incorrectly, that state should be added to the end of the quiz so that it will be asked again. In this way, states should be asked as many times as necessary for the user to answer correctly. The program ends after all of the state capitals have been entered correctly or the user enters '0'. The program should also keep track of the number of correct and incorrect responses, and at the end of the quiz it should report how many questions were answered correctly and how many in total were asked.

Format your program to match the sample below. While the state and capital names will vary, the rest of your output should exactly match the sample output, character for character, including all white space and punctuation. User input in the sample has been highlighted in **Pappy's Purple** to distinguish it from the program's output, but your user input does not need to be colored. Test your program by attempting at least 10 quiz questions and taking a screenshot of the results. Be sure to include both correct and incorrect responses and a response of '0'. Save your program as `capital_quiz_login.py`, where `login` is your Purdue login. Then submit it along with a screenshot that captures a test run of your program.

Terminal

```
$ python capital_quiz_login.py
What is the capital of Oregon (enter 0 to quit)? 0
You didn't answer any questions.
$ python capital_quiz_login.py
What is the capital of Oklahoma (enter 0 to quit)? oklahoma city
    That is correct!
What is the capital of South Carolina (enter 0 to quit)? columbia
    That is correct!
What is the capital of Nebraska (enter 0 to quit)? topeka
    That is incorrect.
    The capital of Nebraska is Lincoln.
What is the capital of Iowa (enter 0 to quit)? des moines
    That is correct!
What is the capital of Montana (enter 0 to quit)? helena
    That is correct!
What is the capital of Illinois (enter 0 to quit)? springfield
    That is correct!
What is the capital of New Hampshire (enter 0 to quit)? concord
    That is correct!
What is the capital of Wisconsin (enter 0 to quit)? madison
    That is correct!
What is the capital of Missouri (enter 0 to quit)? jefferson
    That is incorrect.
    The capital of Missouri is Jefferson City.
What is the capital of Maine (enter 0 to quit)? augusta
    That is correct!
What is the capital of Colorado (enter 0 to quit)? 0
You answered 80.0% of the questions correctly.
```