readme.md 1

Exercise: Hello World

Summary

This exercise goes over the basics of writing text from Python scripts. It also goes over concatenating strings and how scripts can create Markdown files, which can be convenient when preparing nicely-formatted output.

Deliverables

Your finished repository should have three new files: scripts called **hello1.py** and **hello2_file.py** and an output file called **hello2_file.md**.

Instructions

- 1. Please create a new script called hello1.py that uses the print function to write the string "Hello, World!" Once the script is working properly, commit it to the repository.
- 2. Create a new script called hello2_file.py that does the following.
 - 1. Creates a variable called author_name that is equal to your name as a string;
 - 2. Uses string concatenation to create a new variable called author_msg that is equal to the concatenation of three parts: the string "Author: *", the variable author_name, and the string "*\n";
 - 3. Opens a new file called hello2 file.md for writing;
 - 4. Writes four lines to the file using the write() method: the string "# Hello, World!\n", a blank line (the string "\n"), a line consisting of the variable author_msg, and another blank line;
 - 5. Creates a numeric variable called days equal to the number 365;
 - 6. Creates a numeric variable called hours equal to the number 24;
 - 7. Writes one line to the file using the print() function with the arguments "Hours per year:" and days*hours plus the file= argument.
 - 8. Closes the file.
- 3. If you aren't sure how to do one or more of these steps, have a look at the accompanying demo.py file. It has some example code that may be useful. Also, see the note below about the quickref.pdf file.
- 4. When hello2_file.py is working properly, it should produce output similar to example.md . Once you're happy with it, commit the finished versions of hello2_file.py and hello2_file.md to the repository.

Submitting

Once you're happy with everything and have committed all of the changes to your local repository, please **push the changes** to GitHub. At that point, you're done: you have submitted your answer.

Notes

• Starting with this exercise, there will be a file called <code>quickref.pdf</code> in each assignment repository. It will contain a quick reference list of reminders about how to code different things as well as an indication of a script from the current or a previous exercise where similar code was used. It's not very useful in this exercise but the file will be longer and more useful in later exercises.

readme.md 2

Basing the name of a script's output file on the name of the script itself can be very helpful in projects
that involve a lot of files. It ensures that the two are close to each other when someone looks through the
directory.

- The print function's automatic formatting is very handy but there are times when it can be undesirable. A prime example is when you don't actually want spaces inserted between variables. For example, print("Author: *",author_name,"*") adds spaces between the asterisks and the name so the result looks like "Author: * Otto Orange *". That keeps the name from being shown in italics in a Markdown viewer.