

Closed Lab 4

Your Name Here

Description: For this assignment, you will insert yourself into great works of literature. The zip file you downloaded contains a directory called `datafiles` that includes plain text files for four literary masterpieces. You will use Python string and list operations to replace the names of several characters with your own.

Details:

- The books included in `datafiles` are: Frankenstein, Heart of Darkness, Romeo and Juliet, and War of the Worlds.
- The character names to be replaced are: Elizabeth, Marlow, Capulet, and Ogilvy. Create a dictionary mapping each datafile name to the character from that book whose name is to be replaced.
- Prompt the user for their name. This is the replacement name for all of the books.
- For each of the datafiles, your program should loop through, line by line, replacing all occurrences of the target name for that book with the replacement name. You must write a function called `replace_name_in_line` that takes three parameters, a line of the text, the name to be replaced and the new name, and replaces ALL occurrences of name with the replacement. The function will return the new line and the number of replacements performed for that line.
- After replacing the character's name with your name in a line from one of the files, you must print the updated line. Hilarity will ensue. Print only the lines for which at least one replacement occurred.
- To make things more interesting you may not use string method `replace` or list method `remove`.