CS Homework #23
Deadline: April 10th, 9:00 pm.

➢ *Save your code as lastname_homework23.py and submit on Google Classroom.*
➢ *Please, run your code before submitting.*
➢ *If you get an error, try to fix it before submitting your homework.*
➢ *If you get help from anyone, please, make sure that you actually understand the solution.*

Task 1
· Import os module.
· Print your current working directory (folder).
· Create a new folder where you will be saving all your work.
· Make sure to use proper error handling to avoid an error if the folder already exists.
· Change your Python working directory to your new folder.

Task 2
· Go to Project Gutenberg top 100 books page:
  https://www.gutenberg.org/browse/scores/top
· Choose a book that you like. Click on the link.
· Choose "Plain Text UTF-8" format and save the file to your Python working directory
  (one way to do that is to right-click on the link and choose "Save link as").

Task 3
· Open the text file in Python, using "with open" approach similar to what we did in class.
· Makes sure to implement proper error handling.

Task 4
· Read the first 1000 characters from the book and print on the screen.

Task 5
· Read the whole text file and print the total number of characters in the book.

Task 6
· Print the total number of words in the book.
· Print the total number of sentences in the book.
· Print the average length of a word in the book.
· Hint: use .split() and .split('.') string methods for the tasks above.