CS 101 Homework 1/16/2022

➢ *Save your code as lastname_homework.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.*
➢ *Study classwork for related problems.*
➢ *If you get help from anyone, please, make sure that you actually understand the solution.*

Task 1

Create a LIST of your three favorite books (each element should be the book title). Create a separate LIST with the names of the authors of your favorite books above (in the same order).

Task 2

Using for loop, create a DICTIONARY, in which each key will the book title and the value will be the book author's name.

Task 3

Add one more element to your dictionary.

Task 4

Using for loop and f-strings print the title and author names of ALL books in your dictionary. For example: The author of (book title here) is (author's name here).

Task 5

Ask the user for the TITLE of their favorite book. If the book is present in your dictionary, tell the user that this is your favorite book as well. Ask the user for the NAME of their favorite author. If the author is present in your dictionary, tell the user that this is your favorite writer as well.

Task 6

Create list of genres for your favorite book (in the same order as your book titles). It should look something like this, for example: ["fantasy", "mystery", "science fiction"]. Using THREE LISTS (book titles, authors, and genres) create a nested dictionary in the following format: book's title: {author: author's name, genre: book's genre}. Do not do this manually; use the three lists.

Task 7

Create a shallow copy and a deep copy of your nested dictionary. Verify that when you change the genre of one of your books in the original dictionary, the changes are also made in the shallow copy but not in the deep copy.