

Lab 2: Test Case Design

INFT 1207 – Dr. Sukhwant Sagar

Setting up the Python Project

This lab assignment will be completed by pairs of students. Submissions by individual students will not be accepted under normal circumstances. The intent is that the two students to work together.

Create a new Python Application project. **Name the project** *Lab2_GroupN* but replace **N** with your actual group number. Please have your **file name** as *Lab2_firstname1_firstname2.py*. Failure to follow this naming format makes it more difficult for me to download and grade your solution, so attention to this detail is appreciated.

Program Requirements:

For this lab, you are going to create a program that can store and retrieve information related to a user's reading list. You are required to create coding solution satisfying the below requirements.

For this lab the application needs to have the following functionality:

1. Users should be able to add a book (use functions) to their reading list by providing a book title, an author's name, and a year of publication.
2. The program should store information about all these books in a file called *books.csv*, and this data should be stored in CSV format.
3. Users should be able to retrieve the books (use functions) in their reading list, and these books should be printed out in a user-friendly format.
4. Users should be able to search (use functions) for a specific book by providing a book title.
5. Users should be able to select these options from a text menu, and they should be able to perform multiple operations without restarting the program. At the best, the menu should have at least the options of adding the book, listing of all books, searching a particular book, and quit the application.

The first step you need to take for this lab is creating a *books.csv* file in the project workspace.

You along with your partner discuss the possible exhaustive test cases for this lab. Furthermore, the list of test cases (at least 10) along with the test case design table is required to be submitted (like ICE2). In the test case design table, paste the screenshot of your actual output in the actual output column for each test case.

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Expected Output:

The faculty would discuss a few of the test cases for you to start-up during discussion of Lab 2 requirements. Please check the program requirements for test case design and its instructions.

Things to Explore:

You are welcome to explore beyond the mandatory requirements if you wish.

General Requirements

- Include an opening comment with your full name, the full names on the student(s) you are working with, the name of the program, the date, and a short description.
- Follow the course style guide! Use descriptive names for variables, constants, arrays, functions, etc. that follow our naming conventions.
- **Attach the zipped project to the assignment folder. The project should have .py file , a csv file and a test case design file.**
- Each of the lab partners should submit a video recording (sharing screen) explaining the code line by line along with its execution. The lab partner should also mention the distribution of tasks for this lab. Both these requirements would be considered for the teamwork component of the rubric.

