



ADTP PROGRAM
COMPUTER PROGRAMMING II
(USCS22)

Group Assignment 1: Two or Three Members / Group

Total Mark: 30 (5%)

**Due Date: 04 NOVEMBER 2024 (MONDAY),
11.59PM**

Assignment Description:

You are required to develop a system related to movies. Using C++ that incorporates key concepts such as string input and output, structures, classes, arrays, pointers, recursion, and file handling. The program will allow users to manage a list of movies, including the following operations:

- Structures: To store each movie's information (title, release year, and ratings).
- Classes: To manage operations on movies, such as input, output, file management, and average rating calculation.
- Arrays and Pointers: To dynamically manage a list of movies and their ratings.
- Recursion: To recursively calculate the average of an array of ratings.
- File Handling: To save and load movie data to/from a text file.
- String Input/Output: To handle user input of movie titles and display formatted output.

Your code also needs to apply the simple graphical user interface to attract the user to use your system. Using your own creativity to display the result.

Report (No need to paste all the code): Not exceed four pages.

- Cover page and table of contents.
- Introduction about your topic.
- Explain the important part of your code.
- Example of the result.

RUBRIC: ASSIGNMENT 1 (USCS22)

CRITERIA	Very Poor (1)	Poor (2)	Good (3)	Very Good (4)	Excellent (5)
The ability to implement the code and text file with GUI	Unable to write the coding tasks and it does not compile or run with limited success (< 40%).	Able to write the code, and used the compiler but cannot solve the problems with success ($\geq 40\%$, < 60%).	Able to write the code, used the compiler specified, run but has logical errors, some success ($\geq 60\%$, < 80%).	A complete solution is tested and runs but does not meet all the needs of the task with considerable success ($\geq 80\%$, < 100%).	A complete solution runs without errors. It meets all the specifications and work for all the input value, comment, output that relate with the task needs, and outstanding success (Show result in text file) (100%).

SUBMIT YOUR ASSIGNMENT VIA GOOGLE CLASSROOM (REPORT AND FULL CODE .CPP)

***** Plagiarism is strictly prohibited. Marks will be severely deducted if found guilty. Late submission will be penalized.***