Term project (Number system converter and summer)

Project Description

In this project you are required to design a simple number system converter and summer. The program should be able to convert a given number from one base to another base that is to be selected by the user from a drop-down menu. The required number bases are the decimal, binary and octal bases. Also, the program should be able to add any two numbers (from different bases) supplied by the user through converting them to the decimal base first and then output the result in the number base selected by the user.

The project should have a welcome screen that shows the group member names as well as some introductory information about the program. It should also have login fields asking for the bench numbers of the group members. The program should only operate when the correct bench numbers are entered.

Submission Deadline

10/6/2021 before 10 pm, online to the course Blackboard platform.

Grades

The project will be graded out of 10 points.

General instructions

1. A maximum of two students can form a group for this project.
2. Available help aids are the Internet, any visual basic book and/or your teaching assistants. Your teaching assistants will not supply you with code but will help you with questions based on your effort in trying to answer them.
3. You should **upload**:
   - the .exe of the project,
   - a pdf report with all the code you will write and screen shots showing your program in operation. The screen shots should at least show: the welcome screen, the program operation.
4. The general layout of the screens (including back colors, fonts...etc) is totally up to you providing that it gives a clear and comfortable view.
5. Please try your program before sending it. Programs that do not work will result in a maximum grade of 5 (assuming report is submitted with attempted code).

Plagiarism

Any copied programs (fully or partially) will get a score of zero.

Oral exam (random)

Some students will be met (via Google Hangout meet) to discuss their projects.