Task goal:

Using **CodeBlocks** create a C program that displays menu for university employee as the program user to deal with students data.

The program when starts with displaying a menu with multiple lines as follows:

1- Add new student data.
2- Delete existing student using student id.
3- Display all students.
4- Exit program.

- When user presses 1 then press Enter, the program clears the screen and asks the user for student data one by one. Student data is Student full name (50 characters max), Gender (m for male, f for female), Age (30 max), Study year (5 max).

After accepting all entries and verifying that data is within correct range, the programs add the student data into array (max 100 student). It also stores student data into file system inside one text file for all students, each student data in one line in the file, data for one student is separated with comma.

- When user presses 3 then Enter, the program displays all available students data, each student in one line, each student data start by student ID which is the index of that student in the array.
- When user presses 2 then Enter, the program asks the user to enter student ID to be deleted, verify that the ID is within the array limits, then deletes the student data from the array and leaves its place in the array empty and mark this entry as not valid, writes the array back to the file system inside the text file.
- When user presses 4 then Enter, the program terminates.

When the program is closed and started again, it checks if the text file exists, read all students, put them into the array, so if user chooses option 3 then the programs displays all stored students data.

Task instructions:

Each part of the code shall be in a separate c file (Ex. User input part, data processing, output, read/write to file, etc…).

Each one of the team member shall write part of the program, write a comment on top of each file who contributed to this file.

Task time is 4 hours. Delivery shall be maximum at midnight.

It is better to spend 15-30 minutes planning together and putting simple architecture for the program and C files and how functions' APIs will look like and how they will call each other and exchange data, the divide the work on the team members then work in parallel. After 1 hour you can start integrating the work together and continue till you finish.

At the end upload one single CodeBlocks project to one GitHub repo and send the link privately.