Final Project Progress Report:

Due date and End date: 11/20/2020, 11:59 PM CDT

Full Marks: 20

The students are to submit the report highlighting:

1. Work distribution of each member. **[6 Marks]**
    - It needs to be specific which should include:
        i. Disintegration of the complex task into smaller and less complex tasks
            - Present the UML diagram to illustrate the program flow
        ii. Planning and distribution of work
            - In the UML diagram, you can use color code to represent who has done which part of the code.

2. Work completed so far by each member. **[10 Marks]**
    - Each member has to clearly specify his/her portion of the code
    - Code should be submitted in modular form, which should run as a part of a single program. We want only following driver files:
        i. 1st driver file will implement part (a) *.
        ii. 2nd driver file will implement part (b) *and (c) *.
        iii. 3rd driver file will implement part (b) *, (d) *and (e) *

      *Refer to the project file to understand part (a), (b), (c), (d) and (e).

      Note: It is fine to submit any or all of these three driver files, whatever you have submitted till this date. But, we do not want separate driver files implementing each part separately.

    - All the tested output should be specified. This part should include the validation of work done by each stduent
        i. Provide the .c files along with readMe.txt file
        ii. All the output should be specified in the report along with the explanation.

3. Each member need to clearly specify what is left in the design, based on what has been initially assigned. **[2 Marks]**

4. Each member needs to specify the limitation of their code and the remedy to it. **[2 Marks]**

Illustration of UML:

Example Problem: Read the two integer from the files and perform various arithmetic operations life addition, subtraction, multiplication and division.

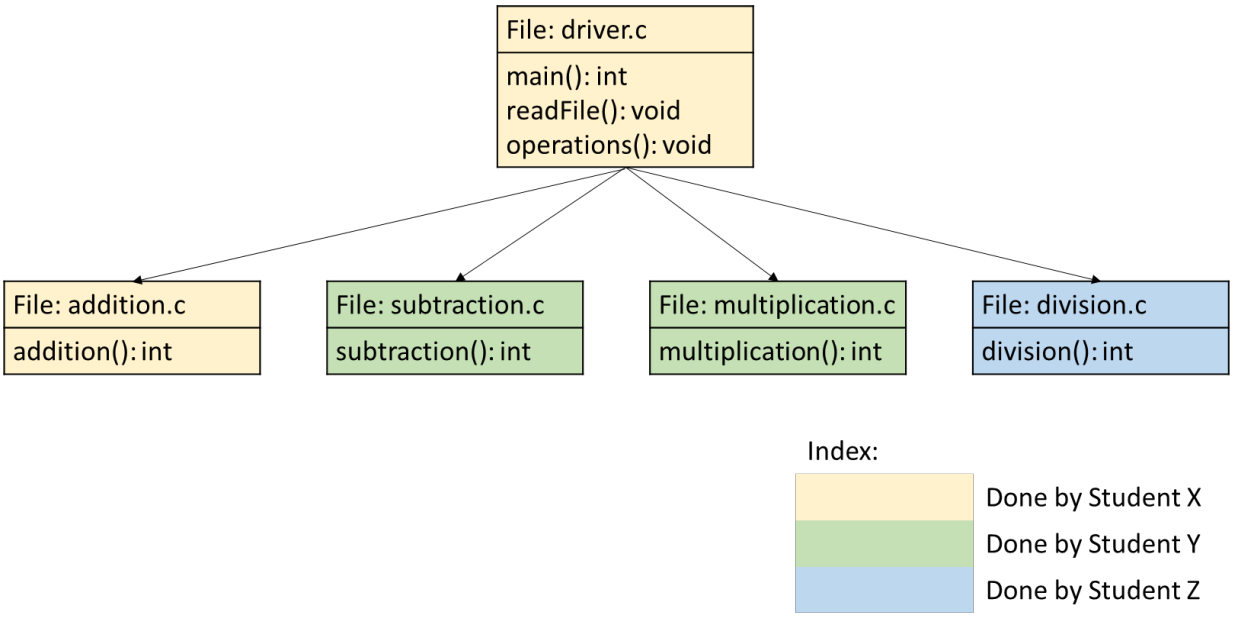

Fig. Illustration of UML for the given program

I believe that the UML is quite self-explanatory. But for the sake of completion, I will explain very briefly:

- 5 files: driver.c, addition.c subtraction.c multiplication.c and division.c
- Driver.c file has 3 functions:
    - main() has a return type of "int". It contains reading input file name from use which contains the data for various arithmetic operation. These data are passed to another function called readFile().
    - readFile() which has a return type void. It reads the data from the file and passes these data another function called operations().
    - operations() function has a return type void and calls all functions defined in another files: addition() from addition.c file, subtraction() from subtraction.c and so on.
- You got the idea for another files.
- There is a color coding used to explain who has done which part:
    - Student X has written code for driver.c and addition.c
    - Student Y has written code for subtraction.c and multipication.c
    - Student Z has written code for division.c