**A3**

1. Finish all the participation activity questions.
2. Programming Projects P2.2
3. Business P2.5
4. For each problem, create a separate .cpp file and give a comment on every part of a single line of your code. Your comment should be as detailed as possible.
5. Apply IO manipulation to each program in order to neatly organize your outputs.

**Submission Guidelines:**

Zip the following components and name the file in the format of A3\_Lastname\_Firstname.zip

* Two source code only. In other words, .cpp files only. No executable file or any other types of files.
* A Microsoft Word document or PDF that includes the following:
* Title of the assignment
* Your name
* For each problem, its title and a screenshot of a sample program run. Do not take a screenshot of your code.

Points:

* Grading has two parts, participation activity questions and A3 programming projects. Each part is worth 100 pts. The grade breakdown of the programming projects is as follows.
  + 40 pts: awarded for each program that runs correctly and includes detailed comments demonstrating a thorough understanding of the code. The comments should explain the purpose, functionality, and logic of key sections of the code, illustrating a clear grasp of the implementation.
  + 10 pts for awarded for meeting all submission requirements, including proper formatting, adherence to submission guidelines, and timely delivery. Ensure all required components are included and organized according to the provided instructions.