**CS4308**

**Assignment 4 (Module 6)**

The purpose of this assignment is to reinforce **Ada** concepts.

Define (and implement) a [**Complex-numbers**](https://stackoverflow.com/questions/61107597/how-do-i-represent-a-complex-number-in-ada) package

(What is an Ada package? A package, as the term is used in Ada, refers to **a collection of related entities, the collection being composed of procedures, functions, variables, constants, types, subtypes, and even other packages**. In our present example, the package is composed of one type and one procedure.)

* that includes the following operations (Note: do not just use the complex package in the Ada libraries):
  + - Addition
    - Subtraction
    - Multiplication
    - Division
* A “main program” needs to create one or more complex numbers, perform the various arithmetic operations, and then display results.
* Develop the program with several packages. Write a short report that documents all work done, including the overall design, explanation of the implementation, the input data used to run the program, the output of the program. Submit an archive with the source code, the input and output data files, and the document report.

Deliverable,

1. Write a report documenting the work done.
2. Include input values and results using command prompt or IDE.
3. Provide well-structured, well-commented, and clear source code.
4. Include a short .mp4 video clip of the program's execution.
5. References – APA format