

The main deliverables of the team project are (1) team presentation; (2) an application program written in the chosen language; and (3) a term paper. Detailed requirements are:

- 1) **Team presentation:** summarize or highlight important design features of the language, including but not limited to the following in your presentation:
 - a. Language evolution: Who designed this language? For what purpose or why this language came out? ...
 - b. Fundamental as well as advanced features of the language such as control structures, data types, program units, functions, object-oriented feature, exception handling etc. as discussed in Chapter 5 through Chapter 14. You may compare its features with features of other selected languages. (Note: don't discuss all features in details. After a brief discussion of main features, each team should focus on one or two important features. Use sample codes of your application compared to other languages (like C, C++ or Java) to demonstrate the features of the language.
 - c. Briefly Demo and explain your application program and what special features of the language it is using.

Each team will present at most 25 minutes and its presentation. Presentations shouldn't be shorter than 20 minutes.

- 2) **Implement an application** chosen by the team to demonstrate the usage of the language. The application program should demonstrate main features (especially features that make it stand out from other common languages) of the language and should not be trivial. Submit source code and sample input/output test run snapshots (one submission per team). Due date: Last day of Class
- 3) **A term paper** that summarizes what described in the above 1 and 2 (i.e. briefly describe what you have done, no detailed discussion on language features and application program necessary) and discusses your experience in learning this new programming language as well as your involvement in teamwork. Suggested length is a minimum of 4 pages single spaced (font size 12). This term paper is not a group effort but your own individual report. Each student will upload their own term paper but the other material that includes power point presentation and application source code and test run outputs (one or 2 screenshots of the application) should be submitted only once, by any one team member. Due date is last day of class.

NOTE: For this project, submit your recorded presentation that both you and your partner need to present together, the power point presentation file (PPT) and source code with output. Term paper will be submitted through the assessment listed in the last Module.

Grading Criteria:

- Presentation (50 points): speech (20 points), slides (25 points), Q&A (5 points)
- Application program (20 points) : difficulty (5 points), quality (10 points), demonstration (5 points)
- Term paper (30 points) : language features explained (20) and application summary (10 points), readability & organization (5 points)