

Project for EE6108

In this project, each student will work to implement 2 routing algorithms, which are Bellman-Ford Algorithm and Dijkstra's Algorithm. Any programming language can be used to generate the codes. The submission of the project should include 1) one original program file and the corresponding executable file, 2) a testing file, which includes a testing input and corresponding output, and 3) a project report.

The all 3 files should be compressed as a zip file to be uploaded into the Assignment folder at the course website in NTULearn. The submission can be made at any time before 1:00am on November 9th, 2020.

The requirements on the program:

- 1) There should be a friendly user interface to accept the input and demonstrate the corresponding output.**
- 2) The topology and scale of the input network should be flexible.**
- 3) There should be a line of note to explain each line of the code.**

The requirements on the project report:

- 1) There should be a literature survey to present some variations of each of the 2 routing algorithms.**
- 2) There should be a flow chart to demonstrate each coded algorithm.**
- 3) There should be an explanation on the testing case.**

The advanced requirements:

- 1) Implementation of one variation for each of the 2 routing algorithms.**
- 2) Comparison between them and the Bellman-Ford Algorithm and Dijkstra's Algorithm in terms of advantages and disadvantages in the report.**