# CUP455 Formative Assessment

## Your Task

Design and implement the main game loop for the summative assessment. This should read in the user input and validate it. The game loop should exit if the player selects exit option. Assume you have 5 options (attack, special attack, recharge, dodge and heal). You do *not* need to implement these options; the user input logic should just use these options to validate input i.e. the input must *only* be one of these options or exit.

1. Your design can be either flowcharts, pseudocode or both
2. Only design the main game loop and user input
3. Use stepwise refinement to expand you design
4. Implement your design
5. Your code should run the game loop and read user input
6. The code should validate the user input
7. The code should exit the program if the user chooses the quit option

## Submission

A submission link is on the SOL page under the assessment tab.

Submission date is 10/11/2023

## What it is

This assessment does not contribute to your final mark. The purpose is to provide you feedback so you can improve your work and to get you started on the summative assessment.

Doing this formative assessment will *definitely* improve your mark if you act on the recommendations in the feedback.

## Hand-in Details

The Game Project and Project report must be submitted online before the deadline to receive full marks. Your submission must contain two files:

1. Your Project Report document, containing the design, testing, conclusions and any supporting diagrams, tables or charts.

* The front page of this report should be a title page that contains at least the information   
  **"[Student Number]\_[LastName]\_[FirstName]\_CUP455\_AE1\_Report".**   
  *(square brackets indicate placeholders, they should not be in the final file name)*
* The document should preferably be in either MS Word or .pdf format.
* Your source code may optionally be included as an appendix in the report.

1. A compressed/zipped file containing your Game Project
2. Only use .zip files, not .rar or other formats. If I can’t open your project I can’t mark it.
3. These two files should be submitted individually, not in one zip file, *only* the project file should be zipped.
4. Name the file **"[Student Number]\_[LastName]\_[FirstName]\_DAC416\_AE1\_Project"**, *(square brackets indicate placeholders, they should not be in the final file name)*.
5. Include all of solution and source code files: .h and .cpp files and any additional files you have created as resources for you project.
6. Make sure you include all source and resource files necessary to build and run your program, including any files supplied to you.
7. You do not need to include temporary or intermediate files created during the build process.