**Task**

You have been tasked with creating a **showcase of your learning**. Your showcase will use the focus on a **Tool of Learning**: the creation of a software solution to play and solve wordle. The default showcase will be an **A2 poster** of your learning and **two recorded presentations**, one for a general audience and a second for technical experts.

# Tool of learning

Worlde is a game played by millions of players. It is a guessing game where punters guess entire words and are given clues. The ruels of wordle are simple:

* You have to guess the word in six goges or less
* Every word you enter must be in the word 10,000 word list.
* A correct letter turns green
* A correct letter in the wrong place turns yellow
* An incorrect letter turns grey
* Letters can be used more than once
* Answers are never plurals
* Players can prove how clever they are by sharing their results without giving away the answer.

# Learning task and submissions

### Tasks

* Create a program that simulates the selection and display of words
* Extend that program to make informed guesses to win.

The default expectation is:

* The solution will be on the command line
* The game uses it’s own word list and selects a word by random
* The game gives appropriate clue similar to the real client using the Rich client or other modules
* The game follows the rules above
* The application runs from the command line using argparse, and allows for the following options:   
  Text

  Description automatically generated

### Submissions

* A planning document that identifies the steps you need to complete to solve the problem.
* A runnable program
* A video of the game being played and solved programmatically autonomously at least 10 times in sequence without breaks or editing.
* A poster presentation of your learning. This poster responds to 3 reflective statements (see below) and is designed for general audiences.
* A presentation that includes your poster and video which is designed for general audiences
* A presentation that includes your poster/video which is designed for technical audiences.

# Showcase Responses

Your **poster and presentations must respond to three statements** and present different levels of information to describe what it is you learnt and how that knowledge can be used in cyber security.

The statements will be provided in the rubric below. You must address your responses to the three audiences:

1. Poster – **summarise your learning for general audiences** in a condensed writing environment
2. General audience presentation – simulates presenting your work and learning to a **general audience and allows for some extrapolation**
3. Technical audience presentation – simulates a **formal class-based presentation on your learning**.

Your general audience presentation should be **3 minutes**, and your technical audience presentation should be no longer than **5 minutes**.