**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 **one recorded presentation** for a general audiences.

# Tool of learning

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

* You must guess the word in six goes 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.

# Tasks for learning and submissions

### Core learning task

* 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 its own word list and selects a word by random
* The game gives appropriate clue like 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

# Showcase Responses

Your **poster and presentation 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**

Your general audience presentation should no longer than **5 minutes**