Programming Project / C++ - Hangman Game - Word Guessing

Student 1: Bacalete Benjamin Student

- 2: Bene Cristian
- I. Task Description

Student 1 is responsible for game logic:

- Inputting a random word
- Checking player guesses
- Updating word display with correct letters
- Tracking number of incorrect attempts

Student 2 is responsible for player interaction:

- Reading and validating player input
- Showing current state of guessed word
- Drawing hangman figure based on lives
- Handling game restart and end conditions
- II. Data Structures Used by the Team The following classes will be used:
 - `Word`: string actualWord, string guessedWord, vector<char> usedLetters `Hangman`: int lives, int maxLives, Word word
- III. Interacting with Executables

Application 1 will offer the following options (Game Logic):

- ./hangman logic.exe choose word
 - → Picks a random word for the current game
- ./hangman_logic.exe check_guess <letter>
 - → Checks a guessed letter and updates guessed word Application

2 will offer the following options (Player Interaction):

- ./hangman_ui.exe start
 - → Starts a new game
- ./hangman ui.exe guess <letter>
 - → Sends a guess to the logic app
- ./hangman ui.exe view state
 - → Displays the current word, lives left, and used letters
- ./hangman_ui.exe restart
 - → Starts a new game after win/loss