**Final Project Report**

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**SECTION #5**

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**SUBMISSION DATE:**

**12/05/22**

**11/15/22**

# Problem

You are to create a typing game that can be played through the Cygwin terminal. Words will appear in a box and the player will need to type the words before they reach the bottom of the box, or the game will end.

# Analysis

I started the code by declaring variables, seeding a random time, and using a function called “read\_words” which counts the number of words in the file and puts them into an array. After that I wrote the start message and asked the user to either press ‘w’ to add words to the file or ‘p’ to play the game. If the user selected ‘w’, the program opened the file and appended the users input to the end of the file. After that the user is prompted again to either press ‘w’ to add words to the file or ‘p’ to play the game. If the user selected ‘p’ I setup the screen and used a function, I made called “window\_outline” which creates an outline on the screen. After that I set all the values in the “yVal” array to 1 so that the words wouldn’t interfere with the outline. Then I created a game loop that continues until one of the words reaches the bottom of the outline. Inside the game loop, I created another loop that prints the words on the board. Then the program waits for the user to enter a word and records how long it took for the user to enter the word. After that I created another loop which checks if the user entered a word that is on the board. Then I increase the number of words on the board based on how much time has passed and created another loop that changes the y values and checks if the bottom of the outline is touched. If the bottom of the outline isn’t touched, the game loop repeats, but if the bottom of the outline is touched, the screen is ended, and the end message is printed.

# Design

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

# Testing

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Text

Description automatically generated