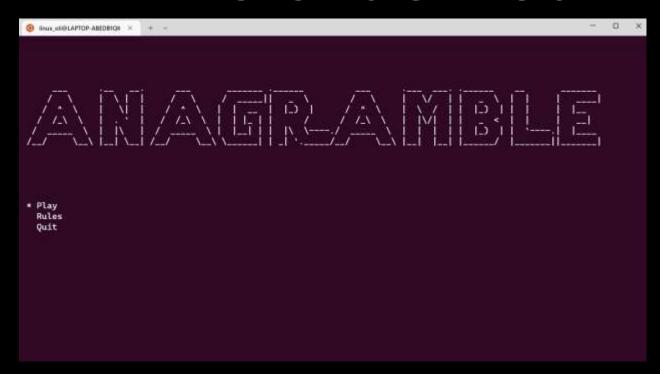
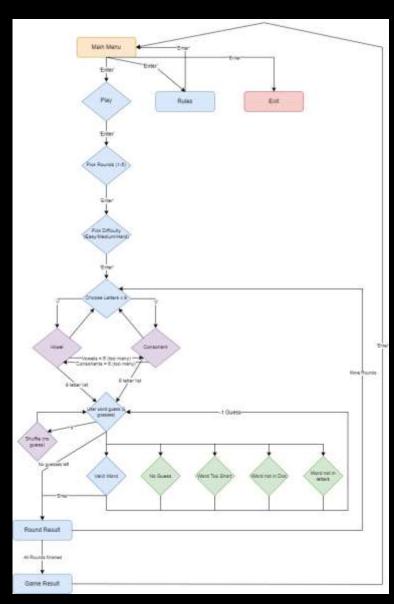
## T1 A3 Slide Deck



### Flowchart!



# Snippet Walkthrough (How the user chooses letters!)

```
# Function: User chooses vowels or consonants to form 9 letter anagram puzzle
   def choose_letters(self):
       letter_list = []
       vowel counter = 0
       consonant counter = 0
       while len(letter_list) < 9:
            user_input = input("Vowel or Consonant (v/c)? ")
           if user input == 'c':
                   if consonant counter < 6:
                       letter list.append(choose consonant())
                       consonant counter += 1
                    else:
                       print("MaxConsonantError: Maximum number of consonants is 6. Please pick a vowel.")
            elif user input == 'v':
               if vowel counter < 5:
                    letter list.append(choose vowel())
                    vowel counter += 1
                else:
                    print("MaxVowelError: Maximum number of vowels is 5. Please pick a consonant.")
            else:
               print("ChooseTypoError: That was a typo! Please use 'v' for a vowel or 'c' for a consonant")
            nice letter list = '.join(letter list)
            print(nice letter list)
       return letter_list
```

#### Errors

```
def validate_word(self, user_input, letters, guesses_remaining):
    # Check if user input is made up of letters in letters list
           lt_list = letters.copy()
            if len(user input) < 3:
                if len(user_input) and not user_input == 's':
                    print((f"SmallWordError: '{user_input}' is less than three letters. (guesses_remaining - 1) guesses remaining."))
                    return False
            elif user_input in english_words_set:
                for letter in user_input:
                    if letter not in lt_list:
                        print((f"Invalid etterError: '(user_input)' cannot be made from these letters. (guesses_remaining - 1) guesses remaining."))
                       return False
                    else:
                       1t list.pop(lt list.index(letter))
                print(f"'{user_input}' is a valid word for a score of {len(user_input)}. {guesses_remaining - 1} guesses remaining.")
               return True
            else:
                print(f"GibberishError: This word is not in the dictionary. (guesses_remaining - 1) guesses remaining.")
                return False
```

#### File Structure

T1A3 [WSL: UBUNTU-22.04] ) pycache\_ .pytest\_cache docs / images > May ppt V STC > \_\_pycache\_\_ > wenv .gitignore anagram.py helper.py letter\_frequency.... log.txt main.py requirements.txt script.sh test\_anagram.py README.md
 M

- The File Structure is that of the assignment's deliverables criteria.
- The paths to the markdown file are relative.
- The python files "main", "anagram", "helper", "letter\_frequency" and "test\_anagram" are all in the src doc.
- The 'log.txt' file is the git log until the final commit
- The 'help.md' file is the installation instructions from the repo.
- The 'script.sh' file is the bash script to install the dependencies required. These are formally listed in the 'requirements.txt' file.

## Review:

Challenges	Ethical Issues	Favourite Parts
<ul> <li>Errors could be handled better, but happy it is functional.</li> <li>Finding an appropriate data set for English words was a compromise.</li> </ul>	<ul> <li>Uncertainty about importing packages and the copyrights to them. I had to make sure but my understanding is that they are largely open-source and free for use.</li> </ul>	<ul> <li>I really enjoyed making the difficulty algorithm. I would like to see how more complicated games write elevated difficulties.</li> <li>The constraints of the</li> </ul>
<ul> <li>Testing (as a result of bad error handling) was more difficult and more ineffective.</li> <li>Believing that I could actually do it was as much of a battle as the algorithms.</li> </ul>	- The fundamental idea of the game could be interpreted as a copy/derivative for other word games. It would be interesting to unpack the validity of this assertion to see what is okay.	terminal/no GUI made the problem solving more math based. I got a thrill out of solving the issues on my own.

## Questions?

