Python Project Report

1. Introduction: I chose task number one. In task number one I need to read the top 1000 words from the English Language and save them in an Excel file. Then I need to get a random word from the Excel file and have the user guess the word. The word will be displayed as dashes and each attempt the user will guess the character and if the user was guessing the character correctly then the character will be revealed in place of the dash. User loses if they make 5 mistakes and wins if there weren't 5 mistakes and the user can guess all of the characters that are contained in the word.

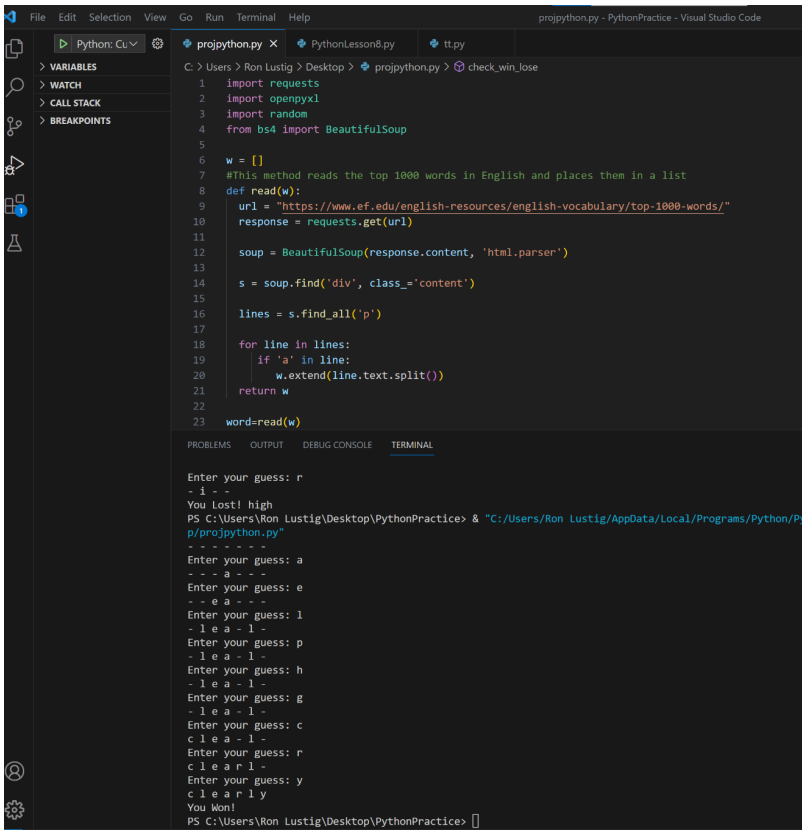
2. Table of functions:

Function Prototype	Description of its purpose
`def read(w: list): -> list`	This function takes an empty list and fills it in with the top 1000 words from the website. Then it returns the list with the top 1000 words in it.
`def save(word: list): -> str`	This function saves the words from the list of words in the excel file. It takes the list that is filled with the top 1000 words and it saves them in an Excel file. Then it returns the Excel file.
`def get_word(wb1: str): -> str`	This function reads from the excel file and is getting a random word from the excel file. It receives the Excel file and chooses a random word from it and returns that random word.
`def update(dashes: str, char: str, words: str): -> str`	This function updates the dashes if the user guesses a character correctly, it is replacing the dash in place of the character that was guessed correctly. It receives the current dashes of the word, the character that was guessed correctly and the word itself.

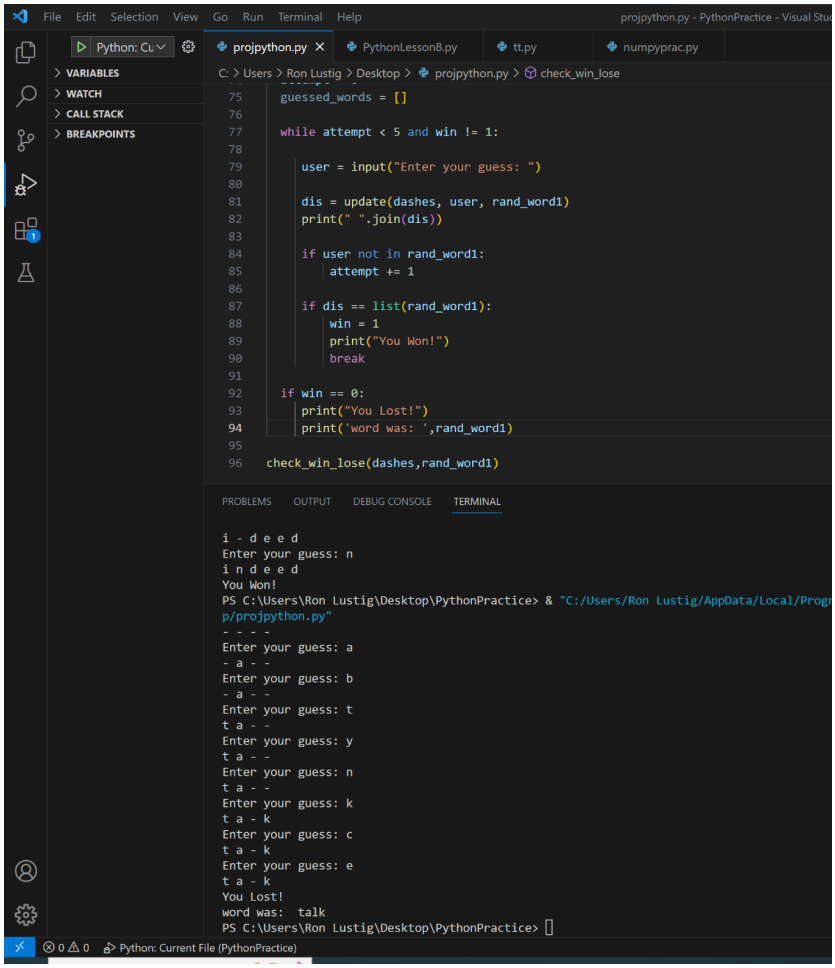
`def check_win_lose(dashes: str,rand_word1: str): -> None`	This function contains a while loop that checks the status and calls the update function to update the dashes if the user selected a character that is contained in the word. It is also checking to see if the user made 5 mistakes and it checks if the user won. It receives the dashes for that word and the word that was chosen. In the while loop I constantly check if user won or lost and update the dashes if the user guessed the character correctly.

3. Snapshots of the program execution

Winning:



Losing:



4. Ron Lustig: I did everything and I worked by myself