CS3080 Python Programming - Task 1

1 Instructions

1.1 Task Teams

- Students will be divided into teams.
- The team can be 1, 2, or 3 students.
- It is not allowed for a team to contain more than 3 students. A team of 4 or more students will get a score of zero.
- Once you form a team, you will continue with that team to implement all the tasks of the semester.
- It is not allowed to change the team members for each task.
- It is your own responsibility to use the modules and modules versions you want.

1.2 What to Submit?

- A single ZIP file that contains the whole task folder.
- The whole task folder contains all the files (.py, .xlsx, report, etc.).
- A report contains the following:
 - Introduction
 - Table of functions

Function Prototype	Description of its purpose	

- Snapshots of the program execution
- Name of group members including the role of each one.
- Steps showing how to run the task.
- Difficulties (if any) that you faced during implementing this task.

2 Tasks

Task 1: Word Guess Game

• Write a Python program to web scrape the following website:

https://www.ef.edu/english-resources/english-vocabulary/top-1000-words/

- The goal of that web scraping is to obtain the 1000 most common words in the English language.
- Once you have them, you should save them in an Excel spreadsheet file.
- After that, develop a word guess game.
- At the start of the game, the program will randomly select a word from the Excel spreadsheet.
- The word characters will be displayed as underscores separated by spaces. For example, if the word has 5 characters, then the word will be displayed as 5 underscores separated by spaces.
 - - - -
- If the player (the guesser) guesses correctly a letter, the character will be displayed in every place in the word.
 - a _ a _ _ a a _ t
- The player can make any number of guesses, but can make 5 mistakes only. For the fifth mistake, the program should do the following:
 - displays the word (the actual characters, not the underscores).
 - displays the message "You Lost!".
 - terminates.
- If the player guessed the word correctly, the program should do the following:
 - displays the word (the actual characters, not the underscores).
 - displays the message "You Won!".
 - terminates.