# Task 1

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Introduction:

The goal of this task is to go to a given website containing 1000 random words and scrape them for use in a guessing game. After scraping the words, it will put them into an Excel spreadsheet, and one random word will be selected for the player to guess. If the player guesses a correct letter, it will be shown next to the other unguessed letters shown as “\_”. The game ends once the player guesses the entire word correctly or makes 5 mistakes.

Table of functions

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| **Function Prototype** | **Description** |
| get\_words(link) | From the link argument, the function uses requests to visit the website, then using bs4, it scrapes a specific paragraph of 1000 words to store in an array. |
| xls\_words(words) | From the array of words passed by the argument, the function opens an Excel spreadsheet and stores all of the words in it. The function then selects a random number between 1-1000(inclusive) and returns the random word corresponding to the random cell number. |
| play\_game(random\_word) | The function loops continuously until the player has guessed the correct word or there have been 5 incorrect guesses. A random word from the argument is displayed by only “\_”. The player guesses a random letter, which is evaluated to see if it is in the word. If the player is correct, then the letter is displayed in the correct location. |
| check\_if\_complete(word, letters) | This function returns true or false depending if all of the letters in the letters argument are found in the word. It does this by removing each letter in the left from the word and checking if there are any letters left. If there is letters left, then the word isn’t entirely guessed. |
| end\_game\_screen(if\_correct, random\_word) | This function simply prints out a screen at the end of the game, stating the random word and weather or not the player won. |

Screenshots:

A screenshot of a computer program

AI-generated content may be incorrect.

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A screen shot of a computer

AI-generated content may be incorrect.

Steps to run the task:

1. Run the Python file
2. Continue to enter single-character guesses when prompted
3. Try to guess the missing word until the program ends

Conclusion:

Overall, the task was very simple. I did have a little difficulty figuring out how to determine if the entire word was completely correct as opposed to partially correct, but I was able to find a solution. I also had a bit of trouble selecting the correct paragraph from the website and ended up having to get all the paragraphs and simply indexing into the correct one by trial and error. The correct paragraph happened to be the 11th one.