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# takes an input of a final word_list, a file of all english words,
and a random letter
# checks whether each word in the inputted list is in the file_list,
starts with the random letter, and has lives.
# then calculates your score based on the conditional it satisfies. If
no conditional is satisfied the game ends.

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def check_for_words (word_list, file_list, random_letter):
    score = 0
    lives = 3
    for word in word_list:
        if word.startswith(random_letter.lower()) and lives > 0:
            if word in file_list:
                score += 1
                lives = lives
            elif word_list == []:
                score -= 1
                lives -= 1
            else:
                score = score
                lives -= 1
        elif not word.startswith(random_letter.lower()) and lives > 0:
            score -= 1
            lives -= 1
        else:
            exit(f"You have no more lives ... game over! Final score:
{score, lives}")
    return score, lives

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# takes your inputs and makes it into a list
# for every word that is not repeated it adds it to the list
def final_word_list (words):
    word_list = []
    for word in words.split(", "):
        if word not in word_list:
            word_list.append(word.lower())
        else:
            word_list = word_list
    return word_list

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# generates the list of english word_list
# generates a random letter
# asks user to enter a list of words separated by commas and spaces
# call final_word_list to generate a list of user inputs
# call check_for_words to see score
def main ():
    from english_words import english_words_set
    file_list = english_words_set
    import random
    import string

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    random_letter = random.choice(string.ascii_letters)
    print ("Welcome to Word Association! Your goal is to find as many
words that start with the letter given. At the end your score is
determined by how many words you got correct. However if you get word
wrong or leave your answer blank, you lose a point and a life. You
will have 3 lives for each round. Once you use up all your lives the
round ends. Remember to separate each word in the list with a space
and a comma. Good Luck!")
    words = input("Enter words with " + random_letter + ": ")
    word_list = final_word_list(words)
    print(check_for_words(word_list, file_list, random_letter))

# run main function
main()
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