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#scrabble word cheat list

filename = "c:/Users/Owner/Desktop/Python Programs/Intermediate/english_sowpods.
txt"

with open(filename) as f:
    sowpod_list = f.read().splitlines()

scores = {'a':1, 'c':3, 'b':3, 'e':1, 'd':2, 'g':2, 'f':4, 'i':1, 'h':4, 'k':5, 'j':8, 'm':
3,
'l':1, 'o':1, 'n':1, 'q':10, 'p':3, 's':1, 'r':1, 'u':1, 't':1, 'w':4, 'v':4, 'y':4, 'x':8, '
z':10}

dict_scrabble_letters = {'j':1, 'k':1, 'q':1, 'x':1, 'z':1, 'b':2, 'c':2, 'f':2, 'h':2, 'm
':2, 'p':2, 'v':2,
'w':2, 'y':2, 'g':3, 'd':4, 'l':4, 's':4, 'u':4, 'n':6, 'r':6, 't':6, 'o':8, 'a':9, 'i':9, 'e'
:12}

list_scrabble_letters = list(dict_scrabble_letters.keys())

#create a random scrabble rack of 7 letters from the scrabble_letter dictionary.

import random
import time

print("Welcome to the Scrabble Cheat List!\n Here is your Rack of letters.")

time.sleep(2)

rack = random.choices(list_scrabble_letters, weights=None, cum_weights=None, k=7)
rack_v1 = ' '.join(map(str.upper, rack))

print(rack_v1)

time.sleep(2)

print('Here is a list of words you can use with those letters.')

time.sleep(1)

def charCount(word):
    dict = {}
    for i in word:
        dict[i] = dict.get(i, 0) + 1
    return dict

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def possible_words(lwords, rack):
    for word in lwords:
        flag = 1
        chars = charCount(word)
        for key in chars:
            if key not in rack:
                flag = 0
            else:
                if rack.count(key) != chars[key]:
                    flag = 0
        if flag == 1:
            print(word, end=' ')

if __name__ == "__main__":
    possible_words(sowpod_list, rack)
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