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1  #While Loops Challenge 29: Guess the Word App
2  import random
3
4  print("Welcome to the Guess My Word App")
5
6  #Create the dict to hold our words
7  game_dict = {
8      "sports": ['basketball', 'baseball', 'soccer', 'football', 'tennis',
9      'curling'],
10     "colors": ['orange', 'yellow', 'purple', 'aquamarine', 'violet', 'gold'],
11     "fruits": ['apple', 'banana', 'watermelon', 'peach', 'mango', 'strawberry'],
12     "classes": ['english', 'history', 'science', 'mathematics', 'art', 'health'],
13 }
14
15 #Create a list of keys
16 game_keys = []
17 for key in game_dict.keys():
18     game_keys.append(key)
19
20 #The main game loop
21 playing = True
22 while playing:
23     #Randomly pick the game category and the game word from the game dictionary
24     game_category = game_keys[random.randint(0, len(game_keys)-1)]
25     game_word = game_dict[game_category][random.randint(0,
26     len(game_dict[game_category])-1)]
27
28     #Build a dashed "-" word to represent the game word
29     blank_word = []
30     for letter in game_word:
31         blank_word.append("-")
32
33     print("Guess a " + str(len(game_word)) + " letter word from the following
34     category: " + game_category.title())
35
36     guess = ""
37     guess_count = 0
38
39     #A single round loop
40     while guess != game_word:
41         #Get a single guess from the user
42         print("".join(blank_word))
43         guess = input("\nEnter your guess: ").lower()
44         guess_count += 1
45
46         #Guess is correct, user won the game
47         if guess == game_word:
48             print("\nCorrect! You guessed the word in " + str(guess_count) + "
49             guesses.")
50             break
51
52         #Guess is incorrect, user must keep guessing
53         else:
54             print("That is not correct. let us reveal a letter to help you!")
55             #Loop to replace "-" in blank_word to reveal a letter to help user
56             swapping = True
57             while swapping:
58                 letter_index = random.randint(0, len(game_word)-1)
59                 if blank_word[letter_index] == "-":
60                     blank_word[letter_index] = game_word[letter_index]
61                     swapping = False
62
63     #Ask the user to play again
64     choice = input("\nWould you like to play again (y/n): ").lower()

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61     if choice != 'y':
62         playing = False
63         print("Thank you for playing the game.")
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