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import random

def choose_word_hard():
    word_list = ['Nebulous','Esoteric','Perpendicular', 'Paradoxical', 'Resplendent']
    return random.choice(word_list).lower()

def choose_word_medium():
    word_list = ['Circuit', 'Bumblebee', 'Quiver', 'Lantern', 'Comet', 'Shadow', 'Lagoon',
'Jacket', 'Monkey', 'Cryptic']
    return random.choice(word_list).lower()

def choose_word_easy():
    word_list = ['Apple', 'Dog', 'Cat', 'Rabbit', 'Turtle', 'Book', 'Face', 'Hair', 'Leg', 'Arm','Red',
'Blue','Green', 'Orange', 'Yellow', 'Frog', 'Bird']
    return random.choice(word_list).lower()

def choose_word_random():
    word_list = ['Nebulous','Esoteric','Perpendicular', 'Paradoxical', 'Resplendent','Apple',
'Dog', 'Cat', 'Rabbit', 'Turtle', 'Book', 'Face', 'Hair', 'Circuit', 'Bumblebee', 'Quiver', 'Lantern',
'Comet', 'Shadow', 'Lagoon', 'Jacket', 'Monkey', 'Cryptic','Leg', 'Arm','Red', 'Blue','Green',
'Orange', 'Yellow', 'Frog', 'Bird']
    return random.choice(word_list).lower()

def letter_count(word):
    num_letters = len(word)
    return "There is " + str(num_letters) + " letters in the word"

def displayed_word(word, guessed_letters):
    displayed_word = ""
    for letter in word:
        if letter in guessed_letters:
            displayed_word += letter
        else:
            displayed_word += '_'
    return displayed_word

def game():
    print("Choose Your Difficulty! ■ (E)asy ■ (M)edium ■ (H)ard ■ (R)andom")
    while True:
        difficulty = input("-> ")[0].lower()
        if difficulty == "h":
            word = choose_word_hard()
            break

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elif difficulty == "m":
word = choose_word_medium()
break
elif difficulty == "e":
word = choose_word_easy()
break
elif difficulty == "r":
word = choose_word_random()
break
else:
print("Please input a valid answer.")
guessed_letters = []

attempts = 8

message = letter_count(word)
print(message)

while True:

print("You have", attempts, "Attempts Left \n")
displayed = displayed_word(word, guessed_letters)
print(displayed)
if '_' not in displayed:
print("Congrats, You Won! The Word was:", word)
break

guess = input("\n Guess a letter: ").lower()

#Checks if you entered 1 letter, if not prints a message.
if len(guess) != 1 or not guess.isalpha() or guess in guessed_letters:
print("Please enter a single letter that you haven't guessed before.")
continue
guessed_letters.append(guess)

if guess not in word:
attempts -= 1
print(guess, "Is not in the word")
if attempts == 0:
print("Sorry, you're out of attempts. The word was", word)
break
else:
print("Correct guess!")

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displayed = displayed_word(word, guessed_letters)
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if '_' not in displayed:
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    print("Congrats, you Won! The word was", word)
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    break
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print("Welcome to Hangman!")
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while True:
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    game()
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    play_again = input("Do you want to play again? (Y/N) : ").lower()
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    while play_again not in ['y','n']:
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        print("Please input a valid answer (Y / N) \n")
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        play_again = input("Do you want to play again? ").lower()
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    if play_again != 'y':
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        print("Thanks for playing!")
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        break
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