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import random


# ASCII art for the hangman
HANGMAN_PICS = [
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# Word categories
WORD_CATEGORIES = {
   "Animals": ["elephant", "giraffe", "kangaroo", "tiger", "zebra"],
   "Countries": ["brazil", "canada", "japan", "india", "germany"],
   "Movies": ["katera", "Raate", "Kranthi", "Rocky", "Ram"]
}

# Difficulty levels
DIFFICULTY_LEVELS = {
   "Easy": 8,
   "Medium": 6,
   "Hard": 4
}

def get_word(category):
   return random.choice(WORD_CATEGORIES[category]).lower()

def display_hangman(tries):
   return HANGMAN_PICS[tries]

def hangman():
```

```
print("Welcome to Hangman!")

# Choose a category
print("\nChoose a category:")
for i, category in enumerate(WORD_CATEGORIES.keys(), 1):
    print(f"{i}. {category}")
category_choice = int(input("Enter the number of your choice: "))
category = list(WORD_CATEGORIES.keys())[category_choice - 1]

# Choose a difficulty level
print("\nChoose a difficulty level:")
for i, level in enumerate(DIFFICULTY_LEVELS.keys(), 1):
    print(f"{i}. {level}")
difficulty_choice = int(input("Enter the number of your choice: "))
difficulty = list(DIFFICULTY_LEVELS.keys())[difficulty_choice - 1]
max_tries = DIFFICULTY_LEVELS[difficulty]

# Get a random word
word = get_word(category)
word_completion = "_" * len(word)
guessed = False
guessed_letters = []
guessed_words = []
tries = 0

print("\nLet's start the game!")
print(display_hangman(tries))
print(word_completion)

while not guessed and tries < max_tries:
    guess = input("\nGuess a letter or the whole word: ").lower()
```

```
if len(guess) == 1 and guess.isalpha():
    if guess in guessed_letters:
        print("You already guessed that letter.")
    elif guess not in word:
        print(f"{guess} is not in the word.")
        tries += 1
        guessed_letters.append(guess)
    else:
        print(f"Good job! {guess} is in the word.")
        guessed_letters.append(guess)
        word_completion = "".join(
            [guess if word[i] == guess else word_completion[i] for i in range(len(word))]
        )
        if "_" not in word_completion:
            guessed = True

elif len(guess) == len(word) and guess.isalpha():
    if guess in guessed_words:
        print("You already guessed that word.")
    elif guess != word:
        print(f"{guess} is not the word.")
        tries += 1
        guessed_words.append(guess)
    else:
        guessed = True
        word_completion = word
else:
    print("Invalid guess. Please enter a single letter or the full word.")

print(display_hangman(tries))
```

```
        print(word_completion)

    if guessed:
        print("\nCongratulations! You guessed the word!")
    else:
        print(f"\nYou lost! The word was '{word}'.")
hangman()
```

Out Put

```
:\Users\rr175\OneDrive\Desktop\pyscript\pyscript\r.py'
Welcome to Hangman!

Choose a category:
1. Animals
2. Countries
3. Movies
Enter the number of your choice: 3

Choose a difficulty level:
1. Easy
2. Medium
3. Hard
Enter the number of your choice: 2

Let's start the game!

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Guess a letter or the whole word: k

Good job! k is in the word.

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k_____

Guess a letter or the whole word: p

p is not in the word.

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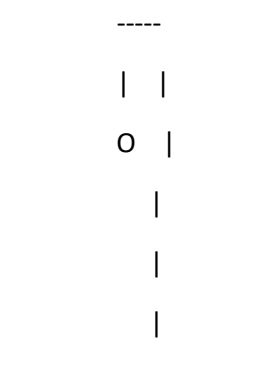
k_____

Guess a letter or the whole word: r

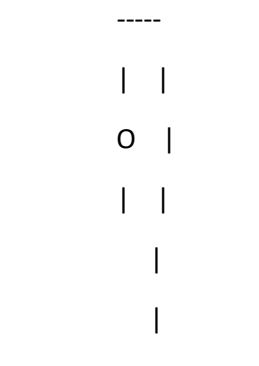
Good job! r is in the word.



kr_____

Guess a letter or the whole word: u

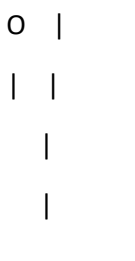
u is not in the word.



kr_____

Guess a letter or the whole word: a

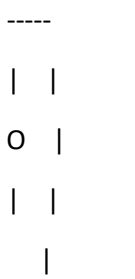
Good job! a is in the word.



kra____

Guess a letter or the whole word: n

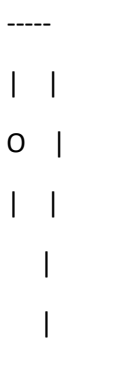
Good job! n is in the word.



kran___

Guess a letter or the whole word: t

Good job! t is in the word.



krant__

Guess a letter or the whole word: h

Good job! h is in the word.

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kranth_

Guess a letter or the whole word: i

Good job! i is in the word.

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kranthi

Congratulations! You guessed the word!

PS C:\Users\rr175\OneDrive\Desktop\pyscript\pyscript>