

internship_with_codealpha

December 7, 2024

0.0.1 Hangman Game

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[3]: import random

# List of words for the game
word_list = [
    "python", "hangman", "programming", "developer", "challenge", "code",
    ↪ "debug", "function", "variable"]

# Randomly select a word from the list
word = random.choice(word_list)

# Initialize the set of guessed letters and the number of incorrect guesses
guessed_letters = set()
incorrect_guess = 0

# Set the maximum number of incorrect guesses allowed
max_incorrect_guess = 6

# Print the introduction and initial word state
print("Welcome to Hangman!")
print(f"The Word has {len(word)} letters.")
print("_" * len(word))

# Start the game loop
while incorrect_guess < max_incorrect_guess:
    guess = input("Guess a letter: ").lower()

    # Validate input
    if len(guess) != 1 or not guess.isalpha():
        print("Please enter a valid single letter.")
        continue

    # Check if the letter was already guessed
    if guess in guessed_letters:
        print("You've already guessed that letter.")
        continue
```

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# Add the guessed letter to the set of guessed letters
guessed_letters.add(guess)

# Check if the guess is correct or incorrect
if guess in word:
    print("Good guess!")
else:
    incorrect_guess += 1
    print(f"Incorrect! You have {max_incorrect_guess - incorrect_guess}
↳guesses left.")

# Display the current state of the word with guessed letters
current_display = ''.join([letter if letter in guessed_letters else "_" for
↳letter in word])
print(current_display)

# Check if the word is completely guessed
if "_" not in current_display:
    print("Congratulations! You've guessed the word.")
    break
else:
    # If the player reaches the maximum number of incorrect guesses
    print(f"Game Over! The word was: {word}")

```

Welcome to Hangman!
The Word has 7 letters.

Guess a letter: h

Good guess!

h_____

Guess a letter: a

Good guess!

ha__a_

Guess a letter: n

Good guess!

han__an

Guess a letter: g

Good guess!

hang_an

Guess a letter: m

Good guess!

hangman

Congratulations! You've guessed the word.