

# **HANGMAN GAME PROJECT**

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import random

words = ["python", "java", "javascript", "ruby", "c"]

word_to_guess = random.choice(words)
guessed_letters = []
attempts_left = 6

display_word = ["_" for _ in word_to_guess]

print("Welcome to Hangman!")
print("Guess the word, one letter at a time.")

while attempts_left > 0 and "_" in display_word:
    print("\nWord: ", " ".join(display_word))
    print(f"Guessed letters: {', '.join(guessed_letters)}")
    print(f"Attempts left: {attempts_left}")

    guess = input("Enter a letter: ").lower()

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

    if guess in guessed_letters:
        print("You already guessed that letter.")
        continue

    guessed_letters.append(guess)

    if guess in word_to_guess:
        for i in range(len(word_to_guess)):
            if word_to_guess[i] == guess:
                display_word[i] = guess
        print("Good guess!")
    else:
        attempts_left -= 1
        print("Wrong guess!")

if "_" not in display_word:
    print("\nCongratulations! You guessed the word:", word_to_guess)
else:
    print("\nGame over! The word was:", word_to_guess)

```