

main.py - C:\Users\DELL\OneDrive\Documents\main.py (3.12.3)

File Edit Format Run Options Window Help

```
import random

def select_random_word():
    words = ["python", "java", "swift", "javascript", "hangman"]
    return random.choice(words)

def display_current_state(word, guessed_letters):
    display = "".join([letter if letter in guessed_letters else "_" for letter in word])
    print("Word: " + display)

def hangman():
    word = select_random_word()
    guessed_letters = set()
    incorrect_guesses = 0
    max_incorrect_guesses = 6

    print("Welcome to Hangman!")
    print(f"You have {max_incorrect_guesses} incorrect guesses. Good luck!")

    while incorrect_guesses < max_incorrect_guesses:
        display_current_state(word, guessed_letters)
        guess = input("Guess a letter: ").lower()

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

        guessed_letters.add(guess)

        if guess in word:
            print("Good guess!")
        else:
            incorrect_guesses += 1
            print(f"Incorrect guess! You have {max_incorrect_guesses - incorrect_guesses} guesses left.")

        if all(letter in guessed_letters for letter in word):
            print(f"Congratulations! You've guessed the word: {word}")
            break
    else:
        print(f"Sorry, you've run out of guesses. The word was: {word}")

if __name__ == "__main__":
    hangman()
```

Python Shell 3.12.3

File Edit Shell Debug Options Window Help

Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\DELL\OneDrive\Documents\main.py =====

Welcome to Hangman!

You have 6 incorrect guesses. Good luck!

Word: _____

Guess a letter: h

Incorrect guess! You have 5 guesses left.

Word: _____

Guess a letter: a

Good guess!

Word: _a_a

Guess a letter: s

Incorrect guess! You have 4 guesses left.

Word: _a_a

Guess a letter: b

Incorrect guess! You have 3 guesses left.

Word: _a_a

Guess a letter: h

You've already guessed that letter. Try again.

Word: _a_a

Guess a letter: t

Incorrect guess! You have 2 guesses left.

Word: _a_a

Guess a letter: c

Incorrect guess! You have 1 guesses left.

Word: _a_a

Guess a letter: k

Incorrect guess! You have 0 guesses left.

Sorry, you've run out of guesses. The word was: java

>>>