Untitled-1

```
import random

# Hangman visual states
HANGMAN_PICS = [
    """
    +---+
    |   |
        |
        |
        |
        |
        |
    =========""",
    """
    +---+
    |   |
    O   |
        |
        |
        |
    =========""",
    """
    +---+
    |   |
    O   |
    |   |
        |
        |
    =========""",
    """
    +---+
    |   |
    O   |
   /|   |
        |
        |
    =========""",
    """
    +---+
    |   |
    O   |
   /|\\  |
        |
        |
    =========""",
    """
    +---+
    |   |
```

```
    O   |
   /|\\  |
   /    |
        |
    =========""",
    """
    +---+
    |   |
    O   |
   /|\\  |
   / \\  |
        |
    =========""]

# List of words and hints
words_with_hints = {
    "python": "A popular programming language.",
    "elephant": "The largest land animal.",
    "guitar": "A musical instrument with strings.",
    "airplane": "A flying vehicle.",
    "pyramid": "A famous ancient structure in Egypt.",
}

def get_random_word_and_hint(words_with_hints):
    word, hint = random.choice(list(words_with_hints.items()))
    return word.upper(), hint

def display_hangman(tries):
    print(HANGMAN_PICS[tries])

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

def play_hangman():
    word, hint = get_random_word_and_hint(words_with_hints)
    guessed_letters = set()
    tries = 0
    max_tries = len(HANGMAN_PICS) - 1

    print("Welcome to Hangman!")
    print(f"Hint: {hint}")

    while tries < max_tries:
        display_hangman(tries)
        display_word_progress(word, guessed_letters)

        guess = input("Guess a letter: ").upper()

        if len(guess) != 1 or not guess.isalpha():
```

```
            print("Invalid input. Please enter a single letter.")
            continue

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

        guessed_letters.add(guess)

        if guess in word:
            print(f"Good guess! '{guess}' is in the word.")
            if all(letter in guessed_letters for letter in word):
                print(f"Congratulations! You guessed the word: {word}")
                break
        else:
            print(f"Sorry, '{guess}' is not in the word.")
            tries += 1

    if tries == max_tries:
        display_hangman(tries)
        print(f"Game Over! The word was: {word}")

if __name__ == "__main__":
    play_hangman()

```