In [1]:
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import random
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In [ ]:
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# List of words
word_list = ['python', 'jupyter', 'notebook', 'hangman', 'internship']

# Function to choose a random word from the list
def choose_word(word_list):
    return random.choice(word_list)

# Function to display the current state of the word
def display_word(word, guessed_letters):
    return ' '.join([letter if letter in guessed_letters else '_' for letter in word])

# Function to check if the player has won
def check_win(word, guessed_letters):
    return all(letter in guessed_letters for letter in word)

# Main Hangman game function
def hangman():
    word = choose_word(word_list)
    guessed_letters = set()
    incorrect_guesses = 0
    max_incorrect_guesses = 6  # Limit on the number of incorrect guesses

    print("Welcome to Hangman!")

    while incorrect_guesses < max_incorrect_guesses:
        print("\nWord to guess: ", display_word(word, guessed_letters))
        guess = input("Guess a letter: ").lower()

        if guess in guessed_letters:
            print("You already guessed that letter.")
        elif guess in word:
            guessed_letters.add(guess)
            print("Good guess!")
        else:
            guessed_letters.add(guess)
            incorrect_guesses += 1
            print(f"Incorrect guess. You have {max_incorrect_guesses - incorrect_guesses} guesses left.")

        if check_win(word, guessed_letters):
            print("\nCongratulations! You've guessed the word:", word)
            break
    else:
        print("\nSorry, you've run out of guesses. The word was:", word)

# Run the game
hangman()
```

```
Welcome to Hangman!

Word to guess:  _ _ _ _ _ _ _
Guess a letter: python
Incorrect guess. You have 5 guesses left.

Word to guess:  _ _ _ _ _ _ _
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In [ ]:
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