Hangman game

Task 1:

Source code;

```
 import random

def choose_word():
    words = ['python', 'hangman', 'guess', 'programming', 'computer']
    return random.choice(words)

def display_word(word, guessed_letters):
    displayed_word = ''
    for letter in word:
        if letter in guessed_letters:
            displayed_word += letter + ' '
        else:
            displayed_word += '_ '
    return displayed_word.strip()

def hangman():
    print("Welcome to Hangman!")
    print("Try to guess the word one letter at a time.")

    word = choose_word()
    guessed_letters = []
    incorrect_guesses = 0
    max_incorrect_guesses = 6  # Adjust this to change the maximum number of incorrect
guesses allowed

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

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

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

```
            continue

        guessed_letters.append(guess)

        if guess in word:
            print("Good guess!")
        else:
            print("Incorrect guess.")
            incorrect_guesses += 1

        if all(letter in guessed_letters for letter in word):
            print("\nCongratulations! You guessed the word:", word)
            break

    if incorrect_guesses == max_incorrect_guesses:
        print("\nSorry, you ran out of guesses. The word was:", word)

hangman()
```

Output;

```
    Welcome to Hangman!
Try to guess the word one letter at a time.

Word: _ _ _ _ _
Enter a letter: prashu
Please enter a single letter.

Word: _ _ _ _ _
Enter a letter: r
Incorrect guess.

Word: _ _ _ _ _
Enter a letter:
```

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