Write a txt file which has a word in each line like:
Hands
Legs
India
Crow
Rain
...

Write a python code to read the file and store the words in the list

Write a function to guess a word randomly from the list.

Now, write a function which asks user to guess the chosen word letter by letter.
Show "incorrect" message to the wrong guessed letter.
Display letters in the clue word that were guessed correctly.

Let say word is EVAPORATE

>>> Welcome to Hangman!
_ _ _ _ _ _ _ _ _
>>> Guess your letter: S
Incorrect!
You left with 5 chances to guess.

>>> Guess your letter: E
E _ _ _ _ _ _ _ E
...
And so on.

1)Only let the user guess 6 times, and tell the user how many guesses they have left.
Keep track of the letters the user guessed.
2) If the user guesses a letter they already guessed, don't penalize them - let them guess again.
3)When the player wins or loses, let them start a new game.

ANS:

```
import random


def read_words_from_file(file_path):
        with open(file_path, 'r') as file:
        words = file.read().splitlines()
    return words
```

```
def choose_random_word(words):
    return random.choice(words)

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

def play_hangman():
    file_path = 'words.txt'
    words = read_words_from_file(file_path)
    chosen_word = choose_random_word(words)
    guessed_letters = set()
    attempts_left = 6

    print("Welcome to Hangman!")
    print(display_word(chosen_word, guessed_letters))

    while attempts_left > 0:
        guess = input("Guess your 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 already guessed that letter.")
            continue

        guessed_letters.add(guess)

        if guess not in chosen_word:
            attempts_left -= 1
            print("Incorrect!")
            print(f"You have {attempts_left} attempts left.")
        else:
```

```
            print(display_word(chosen_word, guessed_letters))

        if all(letter in guessed_letters for letter in chosen_word):
            print("Congratulations! You guessed the word.")
            break

    if attempts_left == 0:
        print("You ran out of attempts. The word was:", chosen_word)

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

OUTPUT: