

Hangman Game

Description: Hangman Game Design a text-based Hangman game. The program selects a random word, and the player guesses one letter at a time to uncover the word. You can set a limit on the number of incorrect guesses allowed.

Source Code:

```
import random

def choose_word():

words=["hangman","computer","python","programming","language","game","code"]

    return random.choice(words)
def display_word(word,gussed_letters):
    display=""
    for letter in word:
        if letter in gussed_letters:
            display+=letter
        else:
            display+='_'
    return display
def hangman():
    max_attempts=6
    gussed_letters=[]
    word=choose_word()
    attempts=0
    print("Welcome to Hangman!")
    print("Try to guess the word.You have", max_attempts, "attempts.")
    print(display_word(word,gussed_letters))
    while attempts<max_attempts:
        guess=input("Guess 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 not in word:
        attempts+=1
        print("Incorrect guess.You have", max_attempts-attempts, "attempts
left.")
    else:
        print("Good guess!")
    word_display=display_word(word,guessed_letters)
    print(word_display)
    if '_' not in word_display:
        print("Congratulations!You guessed the word:",word)
        break
    if '_' in word_display:
        print("Sorry,you ran out of attempts.The word was:",word)
hangman()

```

Output:

Welcome to Hangman!

Try to guess the word.You have 6 attempts.

Guess a letter: p

Incorrect guess.You have 5 attempts left.

Guess a letter: l

Good guess!

l_____

Guess a letter: a

Good guess!

la__a__

Guess a letter: n

Good guess!

lan__a__

Guess a letter: g

Good guess!

lang_ag__

Guess a letter: u

Good guess!

languag__

Guess a letter: d

Incorrect guess.You have 4 attempts left.

languag__

Guess a letter: e

Good guess!

language

Congratulations!You guessed the word: language