

## Final Project!!

Simple game : **Hangman game**

**Code:**

```
import random

def choose_word():

    word_list = ["apple", "banana", "cherry", "date", "elderberry", "fig", "grape",
"honeydew", "kiwi", "lemon", "mango", "orange", "papaya", "quince",
"raspberry", "strawberry", "tangerine", "ugli", "watermelon", "xylophone",
"zebra"]

    return random.choice(word_list)

def display_word(word, guessed_letters):

    display = ""

    for letter in word:

        if letter in guessed_letters:

            display += letter

        else:

            display += "_"

    return display

def hangman():

    word = choose_word()

    guessed_letters = []

    attempts = 6

    print("Welcome to Hangman!")

    while True:

        print(f"Word: {display_word(word, guessed_letters)}")

        print(f"Attempts left: {attempts}")
```

```
if display_word(word, guessed_letters) == word:
    print("You won! The word was:", word)
    break

if attempts == 0:
    print("You lost! The word was:", word)
    break

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

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

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

guessed_letters.append(guess)

if guess not in word:
    attempts -= 1
    print("Incorrect guess.")
else:
    print("Good guess!")

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

## OUTPUT:

➤ Welcome to Hangman!

Word: \_\_\_\_\_

Attempts left: 6

Guess a letter: S

Good guess!

Word: s\_\_\_\_\_

Attempts left: 6

Guess a letter: T

Good guess!

Word: st\_\_\_\_\_

Attempts left: 6

Guess a letter: R

Good guess!

Word: str\_\_\_\_rr\_

Attempts left: 6

Guess a letter: E

Good guess!

Word: str\_\_\_err\_

Attempts left: 6

Guess a letter: W

Good guess!

Word: str\_w\_err\_

Attempts left: 6

Guess a letter: B

Good guess!

Word: str\_wberr\_

Attempts left: 6

Guess a letter: A

Good guess!

Word: strawberr\_

Attempts left: 6

Guess a letter: Y

Good guess!

Word: strawberry

Attempts left: 6

You won! The word was: strawberry

➤ Welcome to Hangman!

Word: \_\_\_\_\_

Attempts left: 6

Guess a letter: F

Incorrect guess.

Word: \_\_\_\_\_

Attempts left: 5

Guess a letter: D

Incorrect guess.

Word: \_\_\_\_\_

Attempts left: 4

Guess a letter: S

Good guess!

Word: \_\_s\_\_\_\_\_

Attempts left: 4

Guess a letter: F

You've already guessed that letter.

Word: \_\_s\_\_\_\_\_

Attempts left: 4

Guess a letter: H

Incorrect guess.

Word: \_\_s\_\_\_\_\_

Attempts left: 3

Guess a letter: J

Incorrect guess.

Word: \_\_s\_\_\_\_\_

Attempts left: 2

Guess a letter: L

Incorrect guess.

Word: \_\_s\_\_\_\_\_

Attempts left: 1

Guess a letter: W

Incorrect guess.

Word: \_\_s\_\_\_\_\_

Attempts left: 0

You lost! The word was: raspberry