The Hangman Problem

https://en.wikipedia.org/wiki/Hangman_(game) (https://en.wikipedia.org/wiki/Hangman_(game))

To write a Program for playing hangman game

In [15]:

```
import random

stages = ['''
  +---+
  |   |
  O   |
 /|\  |
 / \  |
      |
=========
''', '''
  +---+
  |   |
  O   |
 /|\  |
 /    |
      |
=========
''', '''
  +---+
  |   |
  O   |
 /|\  |
      |
      |
=========
''', '''
  +---+
  |   |
  O   |
 /|   |
      |
      |
=========''', '''
  +---+
  |   |
  O   |
  |   |
      |
      |
=========
''', '''
  +---+
  |   |
  O   |
      |
      |
      |
=========
''', '''
  +---+
  |   |
      |
      |
      |
      |
=========
''']
```

```
end_of_game = False
word_list = ["ardvark", "baboon", "camel"]
chosen_word = random.choice(word_list)
word_length = len(chosen_word)

#TODO-1: - Create a variable called 'lives' to keep track of the number of lives left.
#Set 'lives' to equal 6.
lives = 6

#Testing code
print(f'Pssst, the solution is {chosen_word}.')

#Create blanks
display = []
for _ in range(word_length):
    display += "_"

while not end_of_game:
    guess = input("Guess a letter: ").lower()

    #Check guessed letter
    for position in range(word_length):
        letter = chosen_word[position]
       # print(f"Current position: {position}\n Current letter: {letter}\n Guessed letter
        if letter == guess:
            display[position] = letter

    #TODO-2: - If guess is not a letter in the chosen_word,
    #Then reduce 'lives' by 1.
    #If lives goes down to 0 then the game should stop and it should print "You lose."
    if guess not in chosen_word:
        lives -= 1
        if lives == 0:
            end_of_game = True
            print("You lose.")

    #Join all the elements in the list and turn it into a String.
    print(f"{' '.join(display)}")

    #Check if user has got all letters.
    if "_" not in display:
        end_of_game = True
        print("You win.")

    #TODO-3: - print the ASCII art from 'stages' that corresponds to the current number o
    print(stages[lives])
```

```
Pssst, the solution is ardvark.
Guess a letter: a
a _ _ _ a _ _

  +---+
  |   |
      |
      |
      |
      |
=========

Guess a letter: d
a _ d _ a _ _

  +---+
  |   |
      |
      |
      |
      |
=========

Guess a letter: a
a _ d _ a _ _

  +---+
  |   |
      |
      |
      |
      |
=========

Guess a letter: q
a _ d _ a _ _

  +---+
  |   |
  O   |
      |
      |
      |
=========

Guess a letter: v
a _ d v a _ _

  +---+
  |   |
  O   |
      |
      |
      |
=========

Guess a letter: r
a r d v a r _

  +---+
  |   |
```

```
   O   |
       |
       |
       |
=========

Guess a letter: k
a r d v a r k
You win.

  +---+
  |   |
  O   |
      |
      |
      |
=========
```