HANGMAN PROBLEM

NAME: J.L.PUGAZH MUKILAN

REG NO: 22BCE9292 SLOT:L7+L8

1)Solve the Hangman Problem

```
import numpy as np
global word
word = "apple"
global word_list
#make the word as list
word_list = [char for char in word]
global answerlist
answerlist = np.full((1, len(word_list)), "_", dtype='<U1')
print(answerlist)
def no_empty(matrix):
    if "_" in answerlist:
        return False
global game
game=True
 def start():
     guesses = 5
     length= len(word)
    print("length of the word is ",length)
     while (guesses>0):
        if game==False:
         print("=====No of Guesses is ",guesses,"=====")
         character = input ("Enter the guessed character : ")
if character in word:
             for i in range(len(word)):
    if word[i]==character:
                      if answerlist[0][i]=="_":
                           answerlist[0][i]=word[i]
                           if no_empty(answerlist):
                               print("======YOU WON THE GAME======")
                               print(answerlist)
                               game_over=False
                           print(answerlist)
             print("!! You have guessed the worng character !!")
            guesses= guesses-1
         print("======YOUR GUESSES ARE OVER======")
start()
```

OUTPUT:

```
C:\Users\Pugazh Mukilan\Desktop\SEM - 4\Artifical Intellgence - F2\LAB/Hangman.py"
[['_' '_' '_' '_' ']
length of the word is 5
====No of Guesses is 5 ====
Enter the guessed character : D
!! You have guessed the worng character !!
====No of Guesses is 4 ====
Enter the guessed character : A
!! You have guessed the worng character !!
====No of Guesses is 3 ====
Enter the guessed character : a
[['a' '_' '_' '_' ']
====No of Guesses is 3 ====
Enter the guessed character : p
[['a' 'p' '_' '_' ']
====No of Guesses is 3 ====
Enter the guessed character :
====No of Guesses is 3 ====
Enter the guessed character :
====No of Guesses is 3 ====
Enter the guessed character : j
!! You have guessed the worng character !!
====No of Guesses is 2 ====
Enter the guessed character : 1
[['a' 'p' 'p' 'l' '_']]
=====No of Guesses is 2 ====
Enter the guessed character : e
=====No of Guesses is 2 =====
Enter the guessed character : e
=====No of Guesses is 2 =====
Enter the guessed character : e
=====No of Guesses is 2 =====
Enter the guessed character : e
======No of Guesses is 2 =====
```