**PYTHON MINI PROJECT - HANGMAN**

*# importing random function to chose a word randomly*

import random

*# making a dictionary of words*

w0={22:['linguist','noun,refers a person who can survive in many countries'],0:['joey','noun,animals,found only in southernmost island'],

1:['zebra','noun,animals,hybrid of many animals'],

2:['yalk','noun,animals,sounds similar to a yellow edible item'],4:['frown','noun,expression when you dont like something'],

18:['cripple','verb,disability,'],

3:['drip','noun,object that is needed for survival'],9:['rampage','verb,related with action of group of people'],

23:['wrath','noun,feeling'],

24:['queer','adjective,different(synonym)'],5:['pope','noun,religion,head of a community'],

10:['missile','noun,science,ex-president of india(known as)'],30:['nibble','noun,computer,electronics'],

11:['gamble','verb,game,only rich people are involved'],29:['asylum','noun,health'],

12:['success','noun,outcome,everyone wishes for it'],

25:['erratic','adjective,unpredictive'],6:['trek','noun,activity'],

26:['vicious','adjective,behaviour'],7:['brother','noun,relation'],

27:['horrified','verb,feeling,conjuring'],28:['informer','noun,person of help'],

13:['killer','noun,person related to cop'],17:['organic','noun,science,food'],

19:['xenon','noun,science(element),fluroscent'],31:['obnoxious','adjective,unpleasant'],

20:['misbehave','verb,unpleasant act,teachers hate this act of students'],34:['anthropology','noun,study of culture'],

15:['jurassic','adjective,mesozoic era,hollywood'],16:['dynamic','adjective,constant progress,computer language'],

14:['scorpion','noun,animal,zodiac sign'],32:['troubleshoot','verb,analysis,computers'],

21:['prosper','verb,act of growing'],33:['narcotic','noun/verb,related to olden latin america']}

*# creating a set to add wrong guesses and converting that to a list*

r=set()

r1=[]

*# letting the user know the different levels of the game*

print('THE LEVELS OF THE GAME : ')

print('--------- EASY -----------: E')

print('-------- MODERATE --------: M')

print('--------- HARD -----------: H')

*# asking the user/player to chose the level of game*

level=input(' ENTER THE LEVEL OF THE GAME (E,M,H) : ')

*# giving the user words based on the level of his choice*

if level=='E':

s=random.randrange(0,8)

elif level=='M':

s=random.randrange(8,22)

elif level=='H':

s=random.randrange(22,35)

else:

print('INVALID INPUT')

*# the word to guess based on choice of user/player*

w=w0[s][0]

*# creating an empty list to append the letters from the string to list*

w2=[]

*# creating an empty list to make sure the letters are not repeated*

g1=[]

*# creating the set so that redundancy of letters is maintained*

f=set()

*# initializing the n and b to zero , (constants)*

n=0

b=0

*# creating an empty list to add the letters that the user guesses*

w1=[]

*# for loop to append the letters from the string to empty list*

for l in range(len(w)):

w2.append(w[l])

*# for loop to print the '\_'(dashes)*

for i in range(len(w)):

w1.append('\_')

print(w1)

*# for loop to add to the empty set , to decide the number of chances*

for x in range(len(w)):

f.add(w[x])

*# maximum chances a user gets*

j=(len(f)+7)

*# while loop to decide the termination of the loop*

while j<=(len(f)+7) and j>=0 and (w1!=w2):

print()

print('-----------------------------------------')

print()

*# giving hint to the user so that guessing becomes simpler*

p=w0[s][1]

u=p.upper()

print(' HINT : ',u)

print()

*# asking the user to input the letter*

g=input('GUESS A LETTER : ')

if g.isalpha():

*# to check if the letter entered is in the initial word*

if g in w:

print()

print('\*\*\*\*\*\*\*\* RIGHT GUESS \*\*\*\*\*\*\*\*')

print('REMAINING CHANCES : ',j)

print()

*# to make sure that the same letter is not entered again and again*

if g not in g1:

g1.append(g)

*# finding the position of the entered letter with the initial word*

for k in range(len(w)):

*# replacing the '\_'(dashes) with the entered letter*

if w[k]==g:

*# removing the '\_'(dash) from 'k' position so that the letter guessed can be inserted*

del w1[k]

w1.insert(k,g)

print(w1)

*# letting the user know that he has already entered that letter , so try again*

else:

print()

print('LETTER ALREADY GUESSED,TRY ANOTHER LETTER')

print()

*# to inform the user that his input is wrong*

else:

r.add(g)

r1=list(r)

print(w1)

print()

print('THE WRONG LETTERS GUESSED ARE : ',r1)

print()

print('\*\*\*\*\*\*\*WRONG GUESS\*\*\*\*\*\*\*')

print(' REMAINING CHANCES : ',j)

print()

*# to check if the initial word is same as that the guesses word*

for v in range(1):

if w1==w2:

print()

print('-------------------------------------')

print()

print('\*\*\*\*\*\*\*\* CONGRATULATIONS , YOU WON \*\*\*\*\*\*\*\*')

print('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* GAME OVER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*')

print()

print('------------------------------------')

print('THE GUESSED WORD IS : ',w)

print('-------------------------------------')

else:

n=0

*# to stop the user from entering the letters , as max chances are over and the guessed word not same as given word*

if j==0 and (w1!=w2):

print()

print('-------------------------------------')

print('\*\*\*\*\*\*\*\*\*\* WELL TRIED , YOU HAVE LOST \*\*\*\*\*\*\*\*\*\*')

print('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* GAME OVER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*')

print('-------------------------------------')

print()

print('ACTUAL WORD : ',w)

else:

b=0

else:

print('INVALID INPUT')

j=j-1

print()

print()

*# asking the user/player to rate the game*

print('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*')

rate=float(input('PLEASE RATE THE GAME : '))

print()

*# output for the rating entered by the user*

if rate>=0.0 and rate<=4.9:

print('THANKS FOR PLAYING , WE SURELY WILL SATISFY YOU THE NEXT TIME')

elif rate>=5 and rate<=8.9:

print('THANKS FOR PLAYING , DO PLAY THE GAME ONCE AGAIN')

elif rate>=9.0 and rate<=10.0:

print('THANKS FOR PLAYING , DO NOT FORGET US')

else:

print('INVALID INPUT')

print()

print('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*')

print()

*# thank you for playing the hangman game . good bye . see you again*

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