**MINI PROJECT - HANGMAN GAME**

**# import os is for using it to clear the screen when ever required**

import os

**# import time is for giving delayed output or keeps the output on the screen for a while**

import time

**# import random is for selecting the words randomly**

import random

**# dictionary of words with keys as numbers and values as words and hints**

w0={1:['karnataka','state of india with one of the oldest language','state bird is indian roller,state animal is asian elephant'],

2:['kerala','one of its port is called as "queen of arabian sea"','called as gods own country'],

37:['america','one of the countries to have no official language','this country has the maximum divorce rates in the world'],

17:['vatican','it has a monument named after Michaelangelo','smallest city of the world,it is one of the city-states in the world'],

18:['australia','formerly called as New Holland','Hugh Jackman is native of this country'],

19:['snoaring','verb,done by people when they are tired without their knowledge, disturbs others','mostly common with men'],

3:['pope','francis is the first to become the head of this communtiy from america','head of a religious community'],

10:['obama','named Person of the year in 2008,2012 in times magazine','prominent ex-leader of the most powerful country,loves basketball'],

4:['fasting','verb,done as mark of showing anger, also done as a part of health checkup','M.K.Gandhi,anna hazare are known for this act'],

9:['microsoft','one of the founders is Paul Allen','a corporate company headed by an indian'],

38:['bengal','fanta juice was originated here as result of WW2 (indian state)','indian state with the longest international boundry'],

39:['manipur','indian state with worlds only floating national park','this state was caled Jewel of india ny nehru'],

20:['wellington','known as the coolest capital in the world','capital of the southernmost country on the globe(also it is below tropic of capricorn)'],

48:['himalayas','the strongest security guard,protects lakhs of families','it is the youngest of its kind(just 70 million years old)'],

5:['trek','verb,action done as refreshment or enjoyment','there is a motor vehicle with the same name'],

8:['pentagon','film "top gun" was made in collaboration with this service provider','maths,shape,security service'],

6:['oscar','original design of this award was by mgm creations','prestigious award,also won by indian'],

7:['sahara','it shrinks and grows deppending on the climate','place of non survival,also ex-sponsor for a sporting team'],

16:['mirage','is related to physics(optics)','something we see but doesnt exist'],

15:['africa','it has the second largest freshwater lake(lake victoria)','has 54 countries'],

35:['antarctica','has one and only one ATM','dakshin gangotri research base is situated here'],

40:['india','has a floating post office','worlds third largest economy'],

24:['egypt','has the longest river','on an average only one inch of rain falls per year'],

41:['scotland','unicorn is the official animal','sean conery is a native of this country'],

34:['china','air pollution in this country here increases due to snowfall in california','flag of this country has 4 small stars and one star'],

21:['vivo','parent company is BBK electronics','founder of the comapny is shen wei'],

32:['iphone','this name was first patented with cisco systems',"this product was earlier called as project purple"],

27:['italy',"meaning of the country's name is calf land",'this country has won 4 football world cups'],

28:['thailand','has 1430 islands,was called Siam(formerly)',"country's name means land of the free"],

33:['brazil','country covers 3 time zones,this country is named after a tree','worlds largest exporter of coffee'],

31:['madagascar','capital of the country is antananarivo','4th largest island in the world'],

43:['france','has a pen company(one of the costliest) based on the mountain situated here','david guetta(musician) is from this country'],

29:['chile','has atacama desert(driest place on earth','famous poet pablo neruda is a native of this country'],

26:['punjab','indian state with maximum cultivated land','name of the state means collection of 5 rivers'],

30:['jamaica','only country with 120 rivers','capital of this country is kingston'],

25:['germany','this country boundries 9 other countries','has the most number of zoos in the world,also christmas tree tradition originated from here'],

12:['cuba',',largest exporter of sugar in the world','fidel castro is a native of this country'],

42:['canada','has the maximum number of lakes in the world','justin bieber is from this country'],

44:['perth','australian city once called as boorloo',"Australia's windiest city,also called city of lights"],

23:['nokia','comapny named after a place in southern finland','leo mechelin is one of the founders of this company'],

22:['britain','first country to use postage stamps','stephen hawking is from this country'],

11:['vegas','criss angel and andre agassi are from this country','brightest man made place on earth seen from space'],

13:['gujarat','indian state with maximum number of operating airports (17)','indian state with longest sea shore'],

14:['greece','leading producer of sea sponges in the world','sunniest country in the europe'],

45:['singapore','has the largest tropical orchid garden in the world','it is one of the city-country in the world'],

46:['mexico','this was the country that introduced choloclate,chillies,corn to the world','chichen itza pyramid is situated here'],

47:['norway','noun,capital is oslo,national symbol is lion','has a research station in antarctica named TROLL'],

36:['japan','largest automobile producer in the world','known as land of rising sun'],

49:['niue',"country's coins feature mickey mouse and star wars",'island nation in the south pacific'],

50:['ethiopia','this country follows a traditional calendar that is 7 years behind','its capital is addis ababa'],

51:['nauru','this country has no capital','its currency is australian dollar'],

52:['kiribati','only nation in the world that lies in all the 4 hemispheres','capital is tarawa,it is located between australia and hawaii'],

53:['greenland','this country couldnt make it to the fifa because they cannot grow grass fields here','danish krone is the currency and nuuk is the capital'],

54:['kyrgyzstan','inylchek glacier (one of the largest) is situated in this country,this country is in the central asia','bishek is the capital,this country is also known for the epic of manas']}

**# these 9 lines is for printing the hangman figure**

a1=("\t\t\t\_\_\_\n\t\t\t|")

a2=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO")

a3=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t\t|")

a4=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t\t|\n\t\t\t|")

a5=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t\t|\n\t\t\t|\n\t\t\t|")

a6=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t\t|\ \n\t\t\t|\n\t\t\t|")

a7=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t /|\ \n\t\t\t|\n\t\t\t|")

a8=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t /|\ \n\t\t\t|\n\t\t\t|\ ")

a9=("\t\t\t\_\_\_\n\t\t\t|\n\t\t\tO\n\t\t /|\ \n\t\t\t|\n\t\t /|\ ")

**# 's' used to store the number corresponding to word which the user needs to guess**

s=0

j1=0

**# j2 and k2 are empty strings**

j2=""

k2=""

**# default ans='Y' for the first loop to be executed**

ans="Y"

print()

print()

**# title of the game**

print('\t\t\t\t -------------------\n\t\t\t\t| HANGMAN\t |\n\t\t\t\t -------------------')

print()

print()

**# asking the user if he wants to play or not**

ans0=input("DO YOU WANT TO PLAY THE GAME (Y/N) : ")

**# making the user answer into uppercase**

ans3=ans0.upper()

**# printing invalid input when his input is not Y or N**

if ans3!='Y' and ans3!='N':

print()

print("INVALID INPUT")

time.sleep(1)

**# output for the user's answers N**

if ans3=='N':

print()

os.system('clear')

print('\n\t\t\t--------------------------------\n\t\t | HAVE A GOOD DAY |\n\t\t |\t\t\t |\n\t\t |\t BYE\t\t|\n\t\t\t--------------------------------')

time.sleep(1)

os.system('clear')

print()

print()

**# output only when the user inputs Y**

if ans3=='Y':

**# asking the user for his details**

name1=input('ENTER YOUR NAME : ')

name=name1.upper()

time.sleep(1)

print()

os.system('clear')

**# making sure that the entire code runs only when both his inputs are Y**

while ans=='Y' and ans3=="Y":

**# maximum chances that the user gets**

j=9

w1=[]

**# empty list to which the letters of the word are aappended**

w2=[]

**# r is a set to which wrong guesses are added , to make sure that the letters are not repeated**

r=set()

**# converting the set of wrong letters into a list and printing it so that the user knows the wrong guesses**

r1=[]

**# list to which the all the guesses are appended**

g1=[]

print()

print()

**# making the user k now the different levels of the game**

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

print('THE LEVELS OF THE GAME : ')

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

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

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

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

print()

**# asking the user to enter the level he wants to play**

level=input(' ENTER THE LEVEL OF THE GAME : ')

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

time.sleep(1)

os.system('clear')

**# choosing the word randomly from the level entered by the user**

if level=='E' or level=='e':

s=random.randrange(1,19)

elif level=='M' or level=='m':

s=random.randrange(18,37)

elif level=='H' or level=='h':

s=random.randrange(36,55)

else:

print('INVALID INPUT')

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

os.system('clear')

print()

**# assigning 'w' a word from the dictionary w0 based on the level chosen but randomly within that level**

w4=w0[s][0]

**# converting the lowercase into uppercase**

w=w4.upper()

os.system('clear')

print()

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

print()

**# making the '\_' as a string with spaces in between**

for l in range(len(w)):

w2.append(w[l])

for i in range(len(w)):

w1.append('\_')

k2=" ".join(w1)

os.system('clear')

print()

print()

print(k2)

**# while condition making sure that code works until the words are not equal and chances are less than or equal to 9 and greater than 0**

while j<=9 and j>0 and (w1!=w2):

print()

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

**# p is the hint1 given to user**

p=w0[s][1]

u=p.upper()

**# p1 is the hint2 given to user**

p1=w0[s][2]

u1=p1.upper()

print('HINT 1 :: ',u)

print()

**# hint2 is given only when the user has guessed 4 or more wrong guesses**

if len(r1)==4 or len(r1)>4:

print('HINT 2 :: ',u1)

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

else:

u3=0

print()

**# asking the user for guessing letters**

g3=input('GUESS A LETTER : ')

print()

g=g3.upper()

**# condition to check if the letter guessed is an alphabet**

if g.isalpha():

**# checking if the guessed letter is in the word**

if g in w:

print()

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

print('REMAINING CHANCES : ',j)

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

print()

if g not in g1:

g1.append(g)

for k in range(len(w)):

if w[k]==g:

**# to delete the '\_' in the respective places**

del w1[k]

**# to add the right letter in the in those deleted '\_'**

w1.insert(k,g)

**# printing it as a string**

j2=" ".join(w1)

print(j2)

print()

**# printing the wrong letters**

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

else:

print()

**# if the letter is guessed more than once**

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

print()

else:

print(j2)

print("------------------------------------")

**# condition to make sure that the wrong letters are not guessed again and again**

if g not in r1:

**# adding the wrong guesses into a set 'r'**

r.add(g)

r1=list(r)

print()

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

print()

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

print("------------------------------------")

**# reducing the chances as and when a wrong letter is guessed**

j=j-1

print()

**# printing the hangman figure for respective wrong guesses**

if j==8:

print(a1)

print()

print("REMAINING CHANCES : ",j)

elif j==7:

print(a2)

print()

print("REMAINING CHANCES : ",j)

elif j==6:

print(a3)

print()

print("REMAINING CHANCES : ",j)

elif j==5:

print(a4)

print()

print("REMAINING CHANCES : ",j)

elif j==4:

print(a5)

print()

print("REMAINING CHANCES : ",j)

elif j==3:

print(a6)

print()

print("REMAINING CHANCES : ",j)

elif j==2:

print(a7)

print()

print("REMAINING CHANCES : ",j)

elif j==1:

print(a8)

print()

print("REMAINING CHANCES : ",j)

elif j==0:

print(a9)

print()

print("REMAINING CHANCES : ",j)

print()

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

else:

Z=0

else:

print()

**# letting the user know that the wrong letter is already guessed**

print('ALREADY GUESSED , TRY ANOTHER LETTER ')

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

for v in range(1):

**# condition to print the output when the actual word is equal to the guessed word**

if w1==w2:

time.sleep(1)

os.system('clear')

print()

print('\n\t\t\t-----------------------------------')

print('\n\t\t |\t\t\t\t |\n\t\t |\t CONGRATULATIONS \t |\n\t\t |\t YOU WIN \t |\n\t\t |\t\t\t\t |')

print('\n\t\t\t-----------------------------------')

print()

**# condition when chances are zero and the word guessed is incorrect or incomplete**

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

time.sleep(1)

print()

print('\n\t\t\t-----------------------------------')

print('\n\t\t |\t\t\t\t |\n\t\t |\t WELL TRIED, GOOD JOB |\n\t\t |\t \t\t |\n\t\t |\t YOU LOSE \t\t |')

print('\n\t\t\t-----------------------------------')

print()

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

**# printing the actual word so that the user knows the actual word**

print('ACTUAL WORD : ',w)

else:

b=0

else:

print()

print('INVALID INPUT')

print()

time.sleep(2)

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

os.system('clear')

print()

**# asking the user to rate the game from 1-10 (float values)**

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

rate=float(input('PLEASE RATE THE GAME ON A SCALE OF 10 : '))

if rate>=0.0 and rate<=4.9:

print()

print('THANKS FOR PLAYING ,WILL MAKE IT BETTER.')

elif rate>=5 and rate<=8.9:

print()

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

elif rate>=9.0 and rate<=10.0:

print()

print('THANKS FOR PLAYING , HOPE YOU ENJOYED IT')

else:

print()

print('INVALID INPUT')

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

time.sleep(1)

os.system('clear')

print()

**# condition for the same user to replay the game**

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

ans1=input("DO YOU WANT TO PLAY AGAIN (Y/N) : ")

ans=ans1.upper()

print()

os.system('clear')

**# program exits if the input is N**

if ans=='N':

print('\n\t\t\t--------------------------------\n\t\t | NICE PLAYING, SEE YOU AGAIN |\n\t\t |\t\t\t |\n\t\t |\t BYE\t\t|\n\t\t\t--------------------------------')

time.sleep(1)

os.system('clear')

**# program is not executed further when the input is neither Y nor N**

if ans!='N' and ans!='Y':

print('INVALID INPUT')

time.sleep(1)

os.system('clear')

print()

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