

PYTHON HANGMAN GAME CODE:

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import random

from tkinter import *

# list of words

cat1=["afghanistan","ukraine","malaysia","singapore","bangladesh","bulgaria","cambodia","ethiopia","indonesia","jamaica","krygyzstan","luxembourg"]

cat2=["tangerine","dragonfruit","pomegranate","jackfruit","strawberry","blueberry","avacado","water melon","pineapple","grapefruit"]

cat3=["tiger","cheetah","elephant","snake","crocodile","buffalo","donkey","koala","rabbit","panda"]

# list for randomly selected word

guessed_letters=[]

word=""

guessed_word=["_"]*len(word)

attempts=0

attempttext=""

atxt=""

# function to get random word from list

def getword(wlist):

    w=random.choice(wlist)

    return w

def animal():

    global word,guessed_letters,guessed_word,attempts,attempttext,hintcount

    hintcount=0

    #getting random word

    wo=getword(cat3)

    word=wo.upper()

    guessed_letters=[]

    guessed_word=["_"]*len(word)

    guess=False
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    attempts=10
    atxt=attempttext+str(attempts)
    popup()
def fruit():
    global word,guessed_letters,guessed_word,attempts,attempttext,hintcount
    hintcount=0
    wo=getword(cat2)
    word=wo.upper()
    guessed_letters=[]
    guessed_word=["_"]*len(word)
    guess=False
    attempts=10
    atxt=attempttext+str(attempts)
    popup()
def country():
    global word,guessed_letters,guessed_word,attempts,attempttext,hintcount
    hintcount=0
    wo=getword(cat1)
    word=wo.upper()
    guessed_letters=[]
    guessed_word=["_"]*len(word)
    guess=False
    attempts=10
    atxt=attempttext+str(attempts)
    popup()
# category window(2nd window)
def choosecategory():
    global top
    top=Toplevel(gui)

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gui.withdraw()

#this function keeps the root functioning however hides it from the output screen

top.geometry("1024x650")

top.title("CATEGORIES")

bg1 = PhotoImage(file="welcomepage.png")

# Show image using label -

label2 = Label(top,image= bg1)

label2.place(x = 0, y = 0)

category = Label(top,text="C H O O S E C A T E G O R Y",font=("Georgia",17),bg='white')

category.place(x=360,y=100)

#Animal category

category1 = Label(top,text="ANIMAL",font=("Georgia",14),bg='white')

category1.place(x=160,y=200)

ani = PhotoImage(file="animal_button1.png")

animal_label=Label(top,image = ani)

animal_btn = Button(top,image = ani,command=animal)

animal_btn.place(x=105,y=250)

#fruit category

category2 = Label(top,text="FRUIT",font=("Georgia",14),bg='white')

category2.place(x=470,y=200)

fru = PhotoImage(file="fruit_button1.png")

fruit_label = Label(top,image =fru)

fruit_btn = Button(top,image =fru,command=fruit)

fruit_btn.place(x=405,y=250)

#country category

category3 = Label(top,text="COUNTRY",font=("Georgia",14),bg='white')

category3.place(x=760,y=200)

coun =PhotoImage(file="country_button1.png")

country_label = Label(top,image = coun)
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country_btn = Button(top,image = coun,command=country)
country_btn.place(x=705,y=250)

top.mainloop()

#function for hint button
hintcount=0

def clickedhint(wig):
    global hintcount
    if(hintcount<2):
        callhint(wig)
        hintcount+=1
    else:
        hidebutton(wig)

def callhint(wig):
    global guessed_word,guessed_letters,word,hintcount
    wo=word.upper()
    #converts the word into a list of its characters
    tolist=list(word)
    hintlist=[]
    for i in word:
        if i not in guessed_letters:
            #hintlist will contain characters from the word that have not been guessed.
            hintlist.append(i)
    #selects a random character from the hintlist
    h=random.choice(hintlist)
    guessed_letters.append(h)
    a=0
    for char in word:
        if char in guessed_letters:
            guessed_word[a]=wo[a]

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    else:
        guessed_word[a]="_ "
        a+=1
display()

# function for checking guess
def checkletter(gu,w):
    global atxt,attempttext,word,guessed_word
    global attempts,guessed_letters

    attempttext="A T T E M P T S L E F T: "
    exp=""
    g=gu.upper()
    hidebutton(w)

    if g in guessed_letters:
        return
    else:
        guessed_letters.append(g)
        a=0
        for char in word:
            if char in guessed_letters:
                guessed_word[a]=word[a]
            else:
                guessed_word[a]="_ "
            a+=1
        if g in word:
            display()
        else:

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attempts-=1
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atxt=attempttext+str(attempts)
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```
for i in guessed_word:
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```
    exp+=i
```

```
display()
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if "_" not in guessed_word:
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    #call new congo pop up screen
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    youwin()
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if attempts==0:
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    youlose(word)
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#function for displaying images after guess
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def display():
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    global my_Label,attempts
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    global img0,img1,img2,img3,img4,img5,img6,img7,img8,img9,img10
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```
    exp=""
```

```
    for i in guessed_word:
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```
        exp+=i
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    text_change_label.config(text=' '.join(str(exp)))
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    attempts_label.config(text=' '.join(str(atxt)))
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    if attempts==10:
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        my_Label.config(image=img0)
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    elif attempts==9:
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        my_Label.config(image=img1)
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    elif attempts==8:
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        my_Label.config(image=img2)
elif attempts==7:
        my_Label.config(image=img3)
elif attempts==6:
        my_Label.config(image=img4)
elif attempts==5:
        my_Label.config(image=img5)
elif attempts==4:
        my_Label.config(image=img6)
elif attempts==3:
        my_Label.config(image=img7)
elif attempts==2:
        my_Label.config(image=img8)
elif attempts==1:
        my_Label.config(image=img9)
elif attempts==0:
        my_Label.config(image=img10)

# function to hide alphabet after clicking it
def hidebutton(let):
    let.destroy()

    #function to hide the last two pop up screen and restart the game after finishing the game
def removescreen(widget):
    widget.withdraw()
    choosecategory()

# popup window for main game
def popup():
    global text_change_label,attempts_label,attempts,my_Label,root,top
    global img0,img1,img2,img3,img4,img5,img6,img7,img8,img9,img10
    root=Toplevel(gui)

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root.geometry("1024x650")

root.title("Hangman")

top.withdraw()

bgg =PhotoImage(file="welcomepage.png")

label3 = Label(root,image=bgg)

label3.place(x=0 ,y=0 )

attempts_label = Label(root, text=" ",font=("Georgia",12),bg='white') #attempts left ch label

attempts_label.place(x=560,y=120)

#attempts_label.config(text='ATTEMPTS LEFT: '.join(str(attempts)))

guess_the_word_label = Label(root, text="GUESS THE WORD!!",

font=("Georgia",14),bg='white') #guess the word asa lihun yeil

guess_the_word_label.place(x=630,y=180)

text_change_label= Label(root,text=' ',bg='white',font=('Georgia',20))

text_change_label.place(x=600,y=260)

# letter selection buttons

a =Button(root, text='a', fg= 'black', bg= 'white', height =

2,width=4,command=lambda:checkletter('a',a))

a.place(x=460,y = 400)

b =Button(root, text='b', fg= 'black', bg= 'white', height

=2,width=4,command=lambda:checkletter('b',b))

b.place(x=500,y = 400)

c=Button(root, text='c', fg= 'black', bg= 'white', height

=2,width=4,command=lambda:checkletter('c',c))

c.place(x=540,y = 400)

d =Button(root, text='d', fg= 'black', bg= 'white', height

=2,width=4,command=lambda:checkletter('d',d))

d.place(x=580,y= 400)

e =Button(root, text='e', fg= 'black', bg= 'white', height =

2,width=4,command=lambda:checkletter('e',e))

e.place(x=620,y = 400)

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f = Button(root, text='f', fg= 'black', bg= 'white', height =2,width=4,command=lambda:checkletter('f',f))
f.place(x=660,y = 400)

g = Button(root, text='g', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('g',g))

g.place(x=700,y = 400)

h = Button(root, text='h', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('h',h))

h.place(x=740,y = 400)

i = Button(root, text='i', fg= 'black', bg= 'white', height =2,width=4,command=lambda:checkletter('i',i))

i.place(x=780,y = 400)

j = Button(root,text='j', fg= 'black', bg= 'white', height =2,width=4,command=lambda:checkletter('j',j))

j.place(x=820,y = 400)

k = Button(root,text='k', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('k',k))

k.place(x=860,y = 400)

l = Button(root, text='l', fg= 'black', bg= 'white', height = 2,width=4,command=lambda:checkletter('l',l))

l.place(x=900,y = 400)

m = Button(root, text='m', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('m',m))

m.place(x=940,y = 400)

n = Button(root, text='n', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('n',n))

n.place(x= 460,y = 442)

o = Button(root, text='o', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('o',o))

o.place(x= 500,y = 442)

p = Button(root, text='p', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('p',p))

p.place(x= 540,y = 442)

q = Button(root, text='q', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('q',q))

q.place(x= 580,y = 442)
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r = Button(root, text='r', fg= 'black', bg= 'white', height =2,width=4,command=lambda:checkletter('r',r))

r.place(x= 620,y = 442)

s = Button(root, text='s', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('s',s))

s.place(x= 660,y = 442)

t = Button(root, text='t', fg= 'black', bg= 'white', height =
2,width=4,command=lambda:checkletter('t',t))

t.place(x= 700,y = 442)

u = Button(root, text='u', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('u',u))

u.place(x= 740,y = 442)

v = Button(root, text='v', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('v',v))

v.place(x= 780,y = 442)

w = Button(root, text='w', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('w',w))

w.place(x= 820,y = 442)

x = Button(root, text='x', fg= 'black', bg= 'white', height =
2,width=4,command=lambda:checkletter('x',x))

x.place(x= 860,y = 442)

y = Button(root, text='y', fg= 'black', bg= 'white', height =
2,width=4,command=lambda:checkletter('y',y))

y.place(x= 900,y = 442)

z = Button(root, text='z', fg= 'black', bg= 'white', height
=2,width=4,command=lambda:checkletter('z',z))

z.place(x= 940,y = 442)

hint = Button(root, text=' Hint ', fg='black', bg='salmon3', height=1,
width=7,command=lambda:clickedhint(hint))

hint.place(x=730,y=490)

img0 = PhotoImage(file="s.png")

img1 = PhotoImage(file="h0.png")

img2 = PhotoImage(file="h1.png")

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img3 = PhotoImage(file="h2.png")
img4 = PhotoImage(file="h3.png")
img5 = PhotoImage(file="h4.png")
img6 = PhotoImage(file="h5.png")
img7 = PhotoImage(file="h6.png")
img8 = PhotoImage(file="h7.png")
img9 = PhotoImage(file="h8.png")
img10 = PhotoImage(file="h9.png")
my_Label = Label(root,image=img0)
my_Label.place(x=40,y=20)

root.mainloop()

# popup window for win
def youwin():
    chicken = Toplevel(gui)
    chicken.title('wohoo!')
    chicken.geometry('300x200')
    you_won_label = Label(chicken,text = "CONGOO!!\nYOU WON!",font=("Georgia",16))
    you_won_label.pack()
    replay = PhotoImage(file="Replay_button.png")
    replay_label = Label(chicken,image=replay)
    replay_btn = Button(chicken,image = replay,command=lambda:removescreen(chicken))
    replay_btn.pack()
    exit2 = PhotoImage(file="exit_button.png")
    exit_label2 = Label(chicken, image = exit2)
    exit_btn2 = Button(chicken, image= exit2,command=lambda:hidebutton(gui))
    exit_btn2.pack()
    chicken.mainloop()

# popup window for loose
def youloose(word):

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rat = Toplevel(gui)
rat.title('oh no :(')
rat.geometry('300x230')
you_lost_label = Label(rat,text = "YOU LOST :",font=("Georgia",16),bg='white')
you_lost_label.pack()
label=Label(rat,text="the word was:",font=("Georgia",12),bg="white")
label.pack()
labell=Label(rat,text=word,font=("Georgia",16),bg="white")
labell.pack()
replay1 = PhotoImage(file="Replay_button.png")
replay1_label = Label(rat,image=replay1)
replay_btn1 = Button(rat,image = replay1,command=lambda:removescreen(rat))
replay_btn1.pack()
exit3 = PhotoImage(file="exit_button.png")
exit_label3 = Label(rat, image = exit3)
exit_btn3 = Button(rat, image= exit3,command=lambda:hidebutton(gui))
exit_btn3.pack()
rat.mainloop()

#Rules window

def rules():
    R=Toplevel(gui)
    label=Label(R,text="HANGMAN RULES",relief=RAISED,font=("Georgia",16))
    label.pack()
    text=StringVar()
    msg=Message(R,textvariable=text,relief=RAISED,font=("Georgia",16))
    text.set("HOW TO PLAY\nIntro:\nHangman is a classic word game.\nIn this game, you must guess the
secret word one letter at a time.\nEach incorrect guess adds another part to the hangman. Hints:\nIf

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you need help finding a word, click the Hint button \nEach hint will give you 1 letter.\nYou are only allowed two hints per word\nHOPE YOU ENJOY GAMING :))

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msg.pack()

R.geometry("600x500")

R.mainloop()


gui= Tk()

# Adjust size

gui.geometry("1024x650")

gui.title("HANGMAN")

# Add image file

bg = PhotoImage(file = "welcomepage.png")

# Show image using label

label1 = Label(image = bg)

label1.place(x = 0, y = 0)

l = Label(gui, text="W E L C O M E T O H A N G M A N :)",bg='white')

l.config(font=("Georgia",25))

l.pack(pady=80)

# Add buttons

start = PhotoImage(file="start_button.png")

start_label = Label(gui,image = start)

button1 = Button(gui,image=start,command=choosecategory)

button1.pack(pady=15)

rule =PhotoImage(file="rules_button.png")

rules_label = Label(gui,image = rule)

rules_btn = Button(gui,image = rule,command=rules)

rules_btn.pack(pady=30)

# exit button

exit1 = PhotoImage(file="exit_button.png")
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exit_label = Label(gui,image=exit1)

# function for quit

exit_btn = Button(gui,image=exit1,command=lambda:hidebutton(gui))

exit_btn.pack(pady=28)

# Execute tkinter

gui.mainloop()
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