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**Python - Exp 10 (Mini Project)**

**Code:**

import json  
import tkinter  
from tkinter import \*  
import random

with open('./data.json', encoding="utf8") as f:

data = json.load(f)

questions = [v for v in data[0].values()]

answers\_choice = [v for v in data[1].values()]

answers = [0, 0, 1, 2, 3, 3, 3, 1, 2, 0, 1, 1]

user\_answer = []

indexes = []

def gen():

global indexes

while(len(indexes) < 5):

x = random.randint(0, 11)

if x in indexes:

continue

else:

indexes.append(x)

def showresult(score):

lblQuestion.destroy()

r1.destroy()

r2.destroy()

r3.destroy()

r4.destroy()

labelimage = Label(

root,

background="#ffffff",

border=0,

)

labelimage.pack(pady=(50, 30))

labelresulttext = Label(

root,

font=("Felix Titling", 24),

background="#ffffff",

)

labelresulttext.pack()

if score >= 24:

img = PhotoImage(file="great.png")

labelimage.configure(image=img)

labelimage.image = img

labelresulttext.configure(text="You Are Excellent !!")

elif (score >= 12 and score < 24):

img = PhotoImage(file="ok.png")

labelimage.configure(image=img)

labelimage.image = img

labelresulttext.configure(text="You Can Be Better !!")

else:

img = PhotoImage(file="bad.png")

labelimage.configure(image=img)

labelimage.image = img

labelresulttext.configure(text="You Should Work Hard !!")

def calc():

global indexes, user\_answer, answers

x = 0

score = 0

for i in indexes:

if user\_answer[x] == answers[i]:

score = score + 5

x += 1

print(score)

showresult(score)

ques = 1

def selected():

global radiovar, user\_answer

global lblQuestion, r1, r2, r3, r4

global ques

x = radiovar.get()

user\_answer.append(x)

radiovar.set(-1)

if ques < 5:

lblQuestion.config(text=questions[indexes[ques]])

r1['text'] = answers\_choice[indexes[ques]][0]

r2['text'] = answers\_choice[indexes[ques]][1]

r3['text'] = answers\_choice[indexes[ques]][2]

r4['text'] = answers\_choice[indexes[ques]][3]

ques += 1

else:

# print(indexes)

# print(user\_answer)

# these two lines were just developement code

# we don't need them

calc()

def startquiz():

global lblQuestion, r1, r2, r3, r4

lblQuestion = Label(

root,

text=questions[indexes[0]],

font=("Felix Titling", 16),

width=500,

justify="center",

wraplength=400,

background="#ffffff",

)

lblQuestion.pack(pady=(100, 30))

global radiovar

radiovar = IntVar()

radiovar.set(-1)

r1 = Radiobutton(

root,

text=answers\_choice[indexes[0]][0],

font=("Times", 12),

value=0,

variable=radiovar,

command=selected,

background="#ffffff",

)

r1.pack(pady=5)

r2 = Radiobutton(

root,

text=answers\_choice[indexes[0]][1],

font=("Times", 12),

value=1,

variable=radiovar,

command=selected,

background="#ffffff",

)

r2.pack(pady=5)

r3 = Radiobutton(

root,

text=answers\_choice[indexes[0]][2],

font=("Times", 12),

value=2,

variable=radiovar,

command=selected,

background="#ffffff",

)

r3.pack(pady=5)

r4 = Radiobutton(

root,

text=answers\_choice[indexes[0]][3],

font=("Times", 12),

value=3,

variable=radiovar,

command=selected,

background="#ffffff",

)

r4.pack(pady=5)

def startIspressed():

labelimage.destroy()

labeltext.destroy()

lblInstruction.destroy()

lblRules.destroy()

btnStart.destroy()

gen()

startquiz()

root = tkinter.Tk()

root.title("Quizstar")

root.geometry("700x600")

root.config(background="#ffffff")

root.resizable(0, 0)

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

labelimage = Label(

root,

image=img1,

background="#ffffff",

)

labelimage.pack(pady=(40, 0))

labeltext = Label(

root,

text="Quizstar",

font=("Felix Titling", 24, "bold"),

background="#ffffff",

)

labeltext.pack(pady=(0, 50))

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

btnStart = Button(

root,

image=img2,

relief=FLAT,

border=0,

command=startIspressed,

)

btnStart.pack()

lblInstruction = Label(

root,

text="Read The Rules And\nClick Start Once You Are ready",

background="#ffffff",

font=("Felix Titling", 14),

justify="center",

)

lblInstruction.pack(pady=(10, 100))

lblRules = Label(

root,

text="This quiz contains 5 questions\nOnce you select a radio button that will be a final choice\nHence, think before you select",

width=100,

font=("Felix Titling", 15),

background="#000000",

foreground="#FACA2F",

)

lblRules.pack()

root.mainloop()

[

{

"1": "Which is the highest rail bridge in the World?",

"2": "Which state of India has a temple of RATS?",

"3": "Which of the following is the capital of India ?",

"4": "Which of the following is a village with no locks and doors?",

"5": "The Taj Mahal is located in?",

"6": "Which of the fairs is visible from space?",

"7": "Which of the following games was invented in India?",

"8": "Which of the following is not a costal city of india ?",

"9": "Which is the most ancient surviving city in the world?",

"10": "Which of the following is the national beverage of India?",

"11": "Which is the current tallest statue in the world located in India?",

"12": "Which of the following originated in India?"

},

{

"1": [

"Chenab Bridge, India",

"Najiehe Railway Bridge, China",

"Pit River Bridge, US",

"Nanpan River Qiubei Bridge, China"

],

"2": [

"Rajasthan",

"Kerala",

"Telangana",

"Gujarat"

],

"3": [

"Mumbai",

"Delhi",

"Chennai",

"Lucknow"

],

"4": [

"Mawlynnong",

"Khonoma",

"Shani Shingnapur",

"Punsari"

],

"5": [

"Patna",

"Delhi",

"Benaras",

"Agra"

],

"6": [

"Rann Utsav",

"Hornbill Festival",

"Pushkar Fair",

"Kumbh Mela"

],

"7": [

"UNO",

"Ludo",

"Checkers",

"Chess"

],

"8": [

"Bengluru",

"Kochin",

"Mumbai",

"vishakhapatnam"

],

"9": [

"Gwaliior",

"Ujjain",

"Varanasi",

"Mumbai"

],

"10": [

"Tea",

"Coffee",

"Kaadha",

"Soft-drinks"

],

"11": [

"The Statue of Equality",

"The Statue of Unity",

"Lord Hanuman Statue",

"Thiruvalluvar Statue"

],

"12": [

"Cosmetics",

"Shampoo",

"Paints",

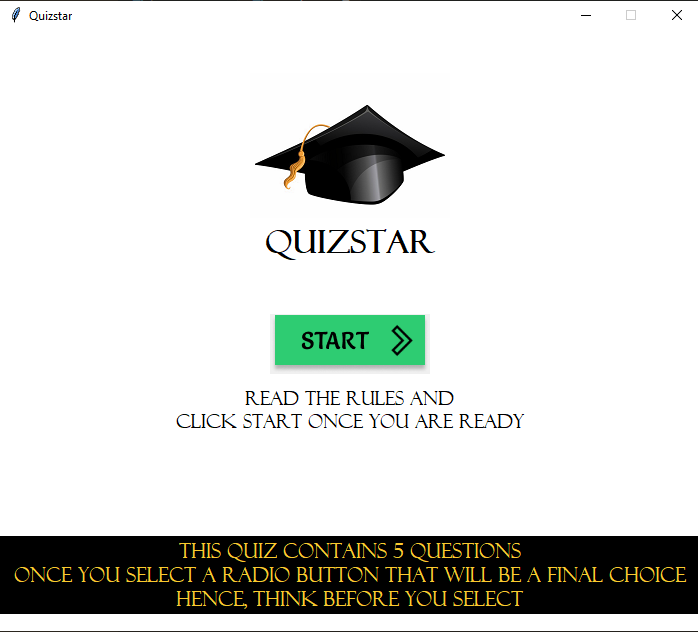
"Deodorants"

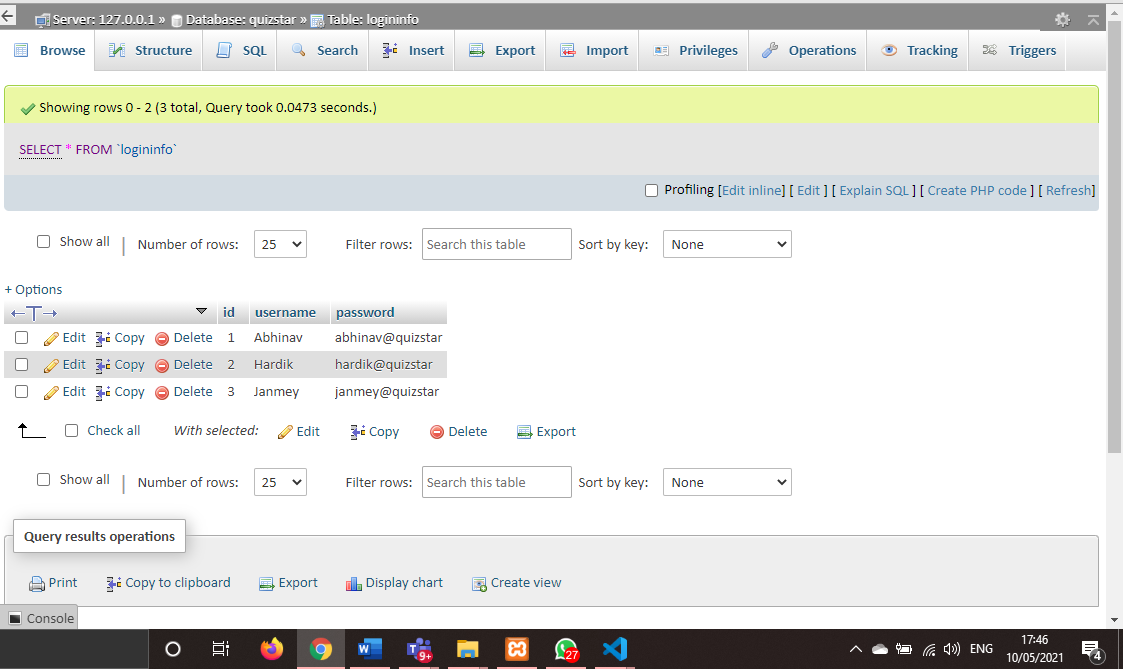
]

}

]

**Output:**

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