

lab_10

September 27, 2023

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[ ]: from tkinter import Tk, Label, Entry, StringVar, IntVar, Checkbutton, \
      ↪ Radiobutton, OptionMenu, Button, messagebox
import re
import datetime

def calculate_age(dob_str):

    dob = datetime.datetime.strptime(dob_str, "%d-%m-%Y")

    today = datetime.date.today()
    age = today.year - dob.year - ((today.month, today.day) < (dob.month, dob.
    ↪ day))

    return age

def submit_form():
    name_value = name.get()
    contact_number = value4.get()
    dob_str = value5.get()

    name_pattern = r"^[A-Za-z\s\-\-]+$"

    contact_pattern = r"^\d{10}$"

    if not re.match(name_pattern, name_value):
        messagebox.showerror("Error", "Invalid name. Please enter a valid name.
    ↪ ")
        return

    if not re.match(contact_pattern, contact_number):
        messagebox.showerror("Error", "Invalid contact number. Please enter a
    ↪ valid 10-digit number.")
        return
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try:
    age = calculate_age(dob_str)
except ValueError:
    messagebox.showerror("Error", "Invalid date of birth format. Please use_
↪YYYY-MM-DD.")
    return

fitness_goal = vars.get()
workout_days = [var1.get(), var2.get(), var3.get(), var4.get(), var5.get(),
↪var6.get()]
workout_time = menu.get()

messagebox.showinfo("Registration", f"Registration done for {name_value}.
↪Age: {age} years")

print("Name:", name_value)
print("Contact Number:", contact_number)
print("Date of Birth:", dob_str)
print("Age:", age)

top = Tk()
top.title("Calorie Counter")
top.geometry("800x600")
top.resizable(False, False)

name = StringVar()
var1 = IntVar()
var2 = IntVar()
var3 = IntVar()
var4 = IntVar()
var5 = IntVar()
var6 = IntVar()
menu = StringVar()
value5 = StringVar()

heading = Label(text="Registration Form", width=20, font=("Arial", 25))
heading.place(x=200, y=30)

entry1 = Label(text="Name:", font=("Arial", 15))
entry1.place(x=20, y=80)
value1 = Entry(top, textvariable=name, width=30)
value1.place(x=300, y=90)

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entry4 = Label(text="Contact number:", font=("Arial", 15))
entry4.place(x=20, y=120)
value4 = Entry(top, width=30)
value4.place(x=300, y=130)

label8=Label(top,text="Your fitness goal",width=15,font=("arial",15))
label8.place(x=15,y=170)
vars=IntVar()
Radiobutton(top,text="Bulk",variable=vars,value=1, font=("Arial", 15)).
    ↪place(x=300,y=170)
Radiobutton(top,text="Fatloss",variable=vars,value=2, font=("Arial", 15)).
    ↪place(x=400,y=170)
Radiobutton(top,text="Maintain",variable=vars,value=3, font=("Arial", 15)).
    ↪place(x=500,y=170)

entry5 = Label(text="Days you workout:", font=("Arial", 15))
entry5.place(x=20, y=210)
ch1 =Checkbutton(top,text ="Monday", variable=var1)
ch2 =Checkbutton(top,text ="Tuesday", variable=var2)
ch3 =Checkbutton(top,text ="Wednesday", variable=var4)
ch4 =Checkbutton(top,text ="Thursday", variable=var3)
ch5 =Checkbutton(top,text ="Friday", variable=var5)
ch6 =Checkbutton(top,text ="Saturday", variable=var6)
ch1.place(x=300, y=210)
ch2.place(x=380, y=210)
ch3.place(x=450, y=210)
ch4.place(x=540, y=210)
ch5.place(x=620, y=210)
ch6.place(x=700, y=210)

entry6 = Label(text="Workout time:", font=("Arial", 15))
entry6.place(x=20, y=250)
op1 =OptionMenu(top,menu,"Morning","Afternoon","Evening","Night")
menu.set("Select time-period")

op1.place(x=300,y=250)

entry7 = Label(text="Date of Birth (DD-MM-YYYY):", font=("Arial", 15))
entry7.place(x=20, y=290)
value7 = Entry(top, textvariable=value5, width=30)
value7.place(x=320, y=300)

submit_button = Button(top, text="Submit", width=10, command=submit_form)
submit_button.place(x=350, y=330)

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top.mainloop()
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Name: Naveen John

Contact Number: 9479449075

Date of Birth: 27-09-2000

Age: 23

assign2.ipynb
assign2.pdf
assign3.ipynb
assign4.ipynb
lab_10.ipynb
lab9.ipynb
nutrients_d
prog6.ipynb

+ Code + Markdown Interrupt Restart Clear All Outputs Go To Variables Outline

value1.place(x=300, y=90)

Calorie Counter

Registration Form

Name:

Contact number:

Your fitness goal: ☒ Bulk ☐ Fatloss ☐ Maintain

Days you workout: ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☐ Saturday

Workout time:

Date of Birth (DD-MM-YYYY):

assign2.ipynb
assign2.pdf
assign3.ipynb
assign4.ipynb
lab_10.ipynb
lab9.ipynb
nutrients_d
prog6.ipynb

+ Code + Markdown Interrupt Restart Clear All Outputs Go To Variables

value1.place(x=300, y=90)

Calorie Counter

Registration Form

Name:

Contact number:

Your fitness goal: ☒ Bulk ☐ Fatloss

Days you workout: ☒ Monday ☒ Tuesday

Workout time:

Date of Birth (DD-MM-YYYY):

Error

Invalid name. Please enter a valid name.

OK

