



## Machine Learning Internship Session 7

### Any Time Medicine Dispenser - Coding Sheet

**\*Python is a case sensitive language and proper indentation should be followed while programming\***

```
import tkinter as tk

from tkinter import messagebox as mb

from tkinter import *

import random

import sqlite3

import time


txt = ""


def loginPage(logdata):

    sup.destroy()

    global login

    login = Tk()

    login.title('Medicine Dispenser Login')


    user_name = StringVar()

    password = StringVar()


    login_canvas = Canvas(login,width=720,height=440,bg="#B64D4D")

    login_canvas.pack()


    login_frame = Frame(login_canvas,bg="orange")

    login_frame.place(relwidth=0.8,relheight=0.8,relx=0.1,rely=0.1)


    heading = Label(login_frame,text="Medicine Dispenser Login",fg="white",bg="orange")

    heading.config(font=('calibri 25'))

    heading.place(relx=0.2,rely=0.1)
```

**#UID**

```
ulabel = Label(login_frame,text="  UID      ",fg='white',bg='black')
ulabel.place(relx=0.21,rely=0.4)

uname = Entry(login_frame,bg='white',fg='black',textvariable = user_name)
uname.config(width=42)
uname.place(relx=0.31,rely=0.4)
```

**#PASSWORD**

```
plabel = Label(login_frame,text="Password",fg='white',bg='black')
plabel.place(relx=0.215,rely=0.5)

pas = Entry(login_frame,bg='white',fg='black',textvariable = password,show="*")
pas.config(width=42)
pas.place(relx=0.31,rely=0.5)
```

**def check():**

```
    for a,b,c,d in logdata:
        if b == uname.get() and c == pas.get():
            #print(logdata)

            menu(a)
            break
    else:
        error = Label(login_frame,text="Wrong UID or Password!",fg='black',bg='white')
        error.place(relx=0.37,rely=0.7)
```

**#LOGIN BUTTON**

```
log = Button(login_frame,text='Login',padx=5,pady=5,width=5,command=check,fg="white",bg="black")
log.configure(width = 15,height=1, activebackground = "#33B5E5", relief = FLAT)
log.place(relx=0.4,rely=0.6)
```

```
login.mainloop()
```

```
def signUpPage():  
    root.destroy()  
  
    global sup  
  
    sup = Tk()  
    sup.title('Medicine Dispenser App')  
  
  
    fname = StringVar()  
    uname = StringVar()  
    passW = StringVar()  
    country = StringVar()  
  
  
    sup_canvas = Canvas(sup,width=720,height=440,bg="#FFBC25")  
    img = PhotoImage(file="bac.png")  
    sup_canvas.create_image(12,10,image=img,anchor=NW)  
    sup_canvas.pack()  
  
    sup_frame = Frame(sup_canvas,bg="#BADA55")  
    sup_frame.place(relwidth=0.8,relheight=0.8,relx=0.1,rely=0.1)  
  
    heading = Label(sup_frame,text="Medicine Dispenser SignUp",fg="#FFA500",bg="#BADA55")  
    heading.config(font=('calibri 25'))  
    heading.place(relx=0.2,rely=0.1)  
  
    #full name  
    flabel = Label(sup_frame,text="Full Name",fg='white',bg='black')  
    flabel.place(relx=0.21,rely=0.4)  
    fname = Entry(sup_frame,bg='white',fg='black',textvariable = fname)  
    fname.config(width=42)  
    fname.place(relx=0.31,rely=0.4)  
  
    #UID  
    ulabel = Label(sup_frame,text="  UID  ",fg='white',bg='black')
```

```
ulabel.place(relx=0.21,rely=0.5)
```

```
user = Entry(sup_frame,bg='white',fg='black',textvariable = uname)
```

```
user.config(width=42)
```

```
user.place(relx=0.31,rely=0.5)
```

```
#password
```

```
plabel = Label(sup_frame,text="Password",fg='white',bg='black')
```

```
plabel.place(relx=0.215,rely=0.6)
```

```
pas = Entry(sup_frame,bg='white',fg='black',textvariable = passW,show="*")
```

```
pas.config(width=42)
```

```
pas.place(relx=0.31,rely=0.6)
```

```
#country
```

```
clabel = Label(sup_frame,text="Country",fg='white',bg='black')
```

```
clabel.place(relx=0.217,rely=0.7)
```

```
c = Entry(sup_frame,bg='white',fg='black',textvariable = country)
```

```
c.config(width=42)
```

```
c.place(relx=0.31,rely=0.7)
```

```
def addUserToDataBase():
```

```
    fullname = fname.get()
```

```
    UID = user.get()
```

```
    password = pas.get()
```

```
    country = c.get()
```

```
    if len(fname.get())==0 and len(user.get())==0 and len(pas.get())==0 and len(c.get())==0:
```

```
        error = Label(text="You haven't enter any field...Please Enter all the fields",fg='black',bg='white')
```

```
        error.place(relx=0.37,rely=0.7)
```

```
    elif len(fname.get())==0 or len(user.get())==0 or len(pas.get())==0 or len(c.get())==0:
```

```
error = Label(text="Please Enter all the fields",fg='black',bg='white')
error.place(relx=0.37,rely=0.7)

elif len(user.get()) == 0 and len(pas.get()) == 0:
    error = Label(text="UID and password can't be empty",fg='black',bg='white')
    error.place(relx=0.37,rely=0.7)

elif len(user.get()) == 0 and len(pas.get()) != 0 :
    error = Label(text="UID can't be empty",fg='black',bg='white')
    error.place(relx=0.37,rely=0.7)

elif len(user.get()) != 0 and len(pas.get()) == 0:
    error = Label(text="Password can't be empty",fg='black',bg='white')
    error.place(relx=0.37,rely=0.7)

else:

    conn = sqlite3.connect('medd.db')
    create = conn.cursor()
    create.execute('CREATE TABLE IF NOT EXISTS userSignUp(FULLNAME text, UID text,PASSWORD
text,COUNTRY text)')
    create.execute("INSERT INTO userSignUp VALUES (?,?,?,?)",(fullname,UID,password,country))
    conn.commit()
    create.execute('SELECT * FROM userSignUp')
    z=create.fetchall()
    #print(z)
    #L2.config(text="UID is "+z[0][0]+"\\nPassword is "+z[-1][1])
    conn.close()
    loginPage(z)

def gotoLogin():
    conn = sqlite3.connect('medd.db')
    create = conn.cursor()
```

```
conn.commit()

create.execute('SELECT * FROM userSignUp')

z=create.fetchall()

loginPage(z)


#signup BUTTON

sp = Button(sup_frame,text='SignUp',padx=5,pady=5,width=5,command = addUserToDataBase,
bg="black",fg="white")

sp.configure(width = 15,height=1, activebackground = "#33B5E5", relief = FLAT)

sp.place(relx=0.4,rely=0.8)


log = Button(sup_frame,text='Already have a Account?',padx=5,pady=5,width=5,command =
gotoLogin,bg="#BADA55", fg="black")

log.configure(width = 16,height=1, activebackground = "#33B5E5", relief = FLAT)

log.place(relx=0.393,rely=0.9)


sup.mainloop()


def menu(abcdefgh):

    login.destroy()

    global menu

    menu = Tk()

    menu.title('Medicine Dispenser Menu')


    menu_canvas = Canvas(menu,width=720,height=440,bg="orange")

    menu_canvas.pack()


    menu_frame = Frame(menu_canvas,bg="#7FFFD4")

    menu_frame.place(relwidth=0.8,relheight=0.8,relx=0.1,rely=0.1)


    wel = Label(menu_canvas,text=' M E D I C I N E   D I S P E N S E R ',fg="white",bg="orange")

    wel.config(font=('Broadway 22'))
```

```
wel.place(relx=0.1,rely=0.02)
```

```
abcdefgh='Hello '+ abcdefgh
```

```
level34 = Label(menu_frame,text=abcdefgh,bg="black",font="calibri 18",fg="white")
```

```
level34.place(relx=0.17,rely=0.15)
```

```
level = Label(menu_frame,text='Please answer the following questions !!',bg="orange",font="calibri 18")
```

```
level.place(relx=0.17,rely=0.3)
```

```
var = IntVar()
```

```
def navigate():
```

```
    menu.destroy()
```

```
    meddi()
```

```
letsgo = Button(menu_frame,text="Let's Go",bg="black",fg="white",font="calibri 12",command=navigate)
```

```
letsgo.place(relx=0.45,rely=0.8)
```

```
menu.mainloop()
```

```
def meddi():
```

```
    global e, txt
```

```
    e = Tk()
```

```
    e.title('Medicine Dispenser BOT')
```

```
    easy_canvas = Canvas(e,width=720,height=440,bg="orange")
```

```
    easy_canvas.pack()
```

```
easy_frame = Frame(easy_canvas,bg="#BADA55")
easy_frame.place(relwidth=0.8,relheight=0.8,relx=0.1,rely=0.1)
```

```
def messageWindow():
    win = Toplevel()
    win.title('Condition')
    message = "How is your health Condition?"
    Label(win, text=message).pack()

    def closeall():
        global txt
        if(txt=="End"):
            win.destroy()
            e.destroy()
            serialout()
        else:
            win.destroy()

    Button(win, text='Mild', command=closeall).pack()
    Button(win, text='Severe', command=closeall).pack()
```

```
def countDown():
    check = 0
    for k in range(10, 0, -1):

        if k == 1:
            check=-1

        timer.configure(text=k)
        easy_frame.update()
        time.sleep(1)
```



```
timer.configure(text="Times up!")
```

```
if check==1:
```

```
    return (-1)
```

```
else:
```

```
    return 0
```

```
easyQ = [
```

```
    [
```

```
        "Do you have cold?",
```

```
        "Yes",
```

```
        "No"
```

```
    ],
```

```
    [
```

```
        "Do you have cough?" ,
```

```
        "Yes",
```

```
        "No"
```

```
    ],
```

```
    [
```

```
        "Do you have throat pain?" ,
```

```
        "Yes",
```

```
        "No"
```

```
    ],
```

```
    [
```

```
        "Do you have headache?" ,
```

```
        "Yes",
```

```
        "No"
```

```
    ],  
    [  
        "Do you have fever?" ,  
        "Yes",  
        "No"  
    ]  
]
```

```
li = ['',0,1,2,3,4]
```

```
x = random.choice(li[1:])
```

```
ques = Label(easy_frame,text=easyQ[x][0],font="calibri 12",bg="orange")
```

```
ques.place(relx=0.5,rely=0.2,anchor=CENTER)
```

```
var = StringVar()
```

```
a = Radiobutton(easy_frame,text=easyQ[x][1],font="calibri 10",value=easyQ[x][1],variable =  
var,bg="#BADA55")
```

```
a.place(relx=0.5,rely=0.42,anchor=CENTER)
```

```
b = Radiobutton(easy_frame,text=easyQ[x][2],font="calibri 10",value=easyQ[x][2],variable =  
var,bg="#BADA55")
```

```
b.place(relx=0.5,rely=0.52,anchor=CENTER)
```

```
li.remove(x)
```

```
timer = Label(e)
```

```
timer.place(relx=0.8,rely=0.82,anchor=CENTER)
```

```
def calc():
```

**global score**

```
if (var.get() == "Yes"):
```

**messageWindow()**

```
def display():
```

**global txt**

```
if len(li) == 1 and txt=="End":
```

**e.destroy()**

## serialout()

```
if len(li) == 2:
```

```
txt="End"
```

```
nextQuestion.configure(text='End',command=calc)
```

**if li:**

## calc()

```
x = random.choice(li[1:])
```

```
ques.configure(text=easyQ[x][0])
```

```
a.configure(text=easyQ[x][1],value=easyQ[x][1])
```

```
b.configure(text=easyQ[x][2],value=easyQ[x][2])
```

**li.remove(x)**

```
y = countdown()
```

```
if y == -1:
```

```
display()
```

```
nextQuestion = Button(easy_frame,command=display,text="Next", fg="white", bg="black")
```

```
nextQuestion.place(relx=0.87,rely=0.82,anchor=CENTER)
```

```
y = countDown()
```

```
if y == -1:
```

```
    display()
```

```
e.mainloop()
```

```
def serialout():
```

```
    import numpy as np
```

```
    import serial
```

```
    MCData = serial.Serial(port = "COM15", baudrate=115200,bytesize=8, timeout=2,  
stopbits=serial.STOPBITS_ONE)
```

```
sh = Tk()
```

```
sh.title('Your Result')
```

```
def callSignUpPage():
```

```
    sh.destroy()
```

```
    start()
```

```
canvas = Canvas(sh,width = 720,height = 440, bg = 'yellow')
```

```
canvas.grid(column = 0 , row = 1)
```

```
img = PhotoImage(file="bac.png")
```

```
canvas.create_image(12,10,image=img,anchor=NW)
```

```
heading = Label(sh,text="Please Take your Tablet",fg="#FFA500",bg="#BADA55")
```

```
heading.config(font=('calibri 25'))
```

```
heading.place(relx=0.28,rely=0.45)

button = Button(sh, text='Quit',command = callSignUpPage,bg="red",fg="yellow")

button.configure(width = 102,height=2, activebackground = "#33B5E5", relief = RAISED)

button.grid(column = 0 , row = 2)


time.sleep(2)


MCDData.write(("1").encode('utf-8'))

sh.mainloop()


def start():

    global root

    root = Tk()

    root.title('Medicine Dispenser')

    canvas = Canvas(root,width = 720,height = 440, bg = 'yellow')

    canvas.grid(column = 0 , row = 1)

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

    canvas.create_image(12,10,image=img,anchor=NW)


    heading = Label(root,text="Medicine Dispenser",fg="#FFA500",bg="#BADA55")

    heading.config(font=('calibri 25'))

    heading.place(relx=0.32,rely=0.45)

    button = Button(root, text='Start',command = signUpPage,bg="red",fg="yellow")

    button.configure(width = 102,height=2, activebackground = "#33B5E5", relief = RAISED)

    button.grid(column = 0 , row = 2)


    root.mainloop()


if __name__=='__main__':

    start()
```

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