Richard Hayes Crowley

02/18/2021

CSC\_157\_Lab\_08

**SOURCE CODE:**

*from* tkinter *import* \*

*from* tkinter *import* messagebox

*from* contacts *import* contactlist\_default

*import* os

*import* pickle

*# ternary expression for loading saved contacts if the file exists, else use default contacts list.*

contactlist = pickle.load(open("contacts.p", "rb")) *if* os.path.exists(

"contacts.p") *else* contactlist\_default

def selection():

print("At %s of %d" % (select.curselection(), len(contactlist)))

*return* int(select.curselection()[0])

def addContact():

contactlist.append([nameVar.get(), phoneVar.get()])

setList()

def updateContact():

contactlist[selection()] = [nameVar.get(), phoneVar.get()]

setList()

def deleteContact():

*del* contactlist[selection()]

setList()

def loadContact():

name, phone = contactlist[selection()]

nameVar.set(name)

phoneVar.set(phone)

def saveContact():

pickle.dump(contactlist, open("contacts.p", "wb"))

def exitMenu():

*if* (messagebox.askokcancel(*title*="My Contact List", *message*="Do you want to exit, OK or Cancel") == 1):

os.\_exit(1)

def buildFrame():

global nameVar, phoneVar, select

root = Tk()

root.title("My Contact List")

frame1 = Frame(root)

frame1.pack()

Label(frame1, *text*="Name:").grid(*row*=0, *column*=0, *sticky*=W)

nameVar = StringVar()

name = Entry(frame1, *textvariable*=nameVar)

name.grid(*row*=0, *column*=1, *sticky*=W)

Label(frame1, *text*="Phone:").grid(*row*=1, *column*=0, *sticky*=W)

phoneVar = StringVar()

phone = Entry(frame1, *textvariable*=phoneVar)

phone.grid(*row*=1, *column*=1, *sticky*=W)

frame1 = Frame(root) *# add a row of buttons*

frame1.pack()

btn1 = Button(frame1, *text*=" Add ", *command*=addContact)

btn2 = Button(frame1, *text*="Update", *command*=updateContact)

btn3 = Button(frame1, *text*="Delete", *command*=deleteContact)

btn4 = Button(frame1, *text*=" Load ", *command*=loadContact)

btn5 = Button(frame1, *text*=" Save ", *command*=saveContact)

btn6 = Button(frame1, *text*=" Exit ", *command*=exitMenu)

btn1.pack(*side*=LEFT)

btn2.pack(*side*=LEFT)

btn3.pack(*side*=LEFT)

btn4.pack(*side*=LEFT)

btn5.pack(*side*=LEFT)

btn6.pack(*side*=BOTTOM)

frame1 = Frame(root) *# allow for selection of names*

frame1.pack()

scroll = Scrollbar(frame1, *orient*=VERTICAL)

select = Listbox(frame1, *yscrollcommand*=scroll.set, *height*=7)

scroll.config(*command*=select.yview)

scroll.pack(*side*=RIGHT, *fill*=Y)

select.pack(*side*=LEFT, *fill*=BOTH)

*return* root

def setList():

contactlist.sort()

select.delete(0, END)

*for* name, phone *in* contactlist:

select.insert(END, name)

root = buildFrame()

setList()

root.mainloop()

**OUTPUT:**SEE VIDEO IN COMPRESSED FOLDER