from tkinter import \*

from tkinter import messagebox

import sqlite3 as sql

def add\_task():

task\_string = task\_field.get()

if len(task\_string) == 0:

messagebox.showinfo('Error', 'Field is Empty.')

else:

tasks.append(task\_string)

the\_cursor.execute('insert into tasks values (?)', (task\_string ,))

list\_update()

task\_field.delete(0, 'end')

def list\_update():

clear\_list()

for task in tasks:

task\_listbox.insert('end', task)

def delete\_task():

try:

the\_value = task\_listbox.get(task\_listbox.curselection())

if the\_value in tasks:

tasks.remove(the\_value)

list\_update()

the\_cursor.execute('delete from tasks where title = ?', (the\_value,))

except:

messagebox.showinfo('Error', 'No Task Selected. Cannot Delete.')

def delete\_all\_tasks():

message\_box = messagebox.askyesno('Delete All', 'Are you sure?')

if message\_box == True:

while(len(tasks) != 0):

tasks.pop()

the\_cursor.execute('delete from tasks')

list\_update()

def clear\_list():

task\_listbox.delete(0, 'end')

def close():

print(tasks)

guiWindow.destroy()

def retrieve\_database():

while(len(tasks) != 0):

tasks.pop()

for row in the\_cursor.execute('select title from tasks'):

tasks.append(row[0])

if \_name\_ == "\_main\_":

guiWindow = Tk()

guiWindow.title("To-Do List ")

guiWindow.geometry("665x400+550+250")

guiWindow.resizable(0, 0)

guiWindow.configure(bg = "#B5E5CF")

the\_connection = sql.connect('listOfTasks.db')

the\_cursor = the\_connection.cursor()

the\_cursor.execute('create table if not exists tasks (title text)')

tasks = []

functions\_frame = Frame(guiWindow, bg = "#8EE5EE")

functions\_frame.pack(side = "top", expand = True, fill = "both")

task\_label = Label( functions\_frame,text = "TO-DO-LIST \n Enter the Task Title:",

font = ("arial", "14", "bold"),

background = "#8EE5EE",

foreground="#FF6103"

)

task\_label.place(x = 20, y = 30)

task\_field = Entry(

functions\_frame,

font = ("Arial", "14"),

width = 42,

foreground="black",

background = "white",

)

task\_field.place(x = 180, y = 30)

add\_button =Button(

functions\_frame,

text = "Add",

width = 15,

bg='#D4AC0D',font=("arial", "14", "bold"),

command = add\_task,

)

del\_button = Button(

functions\_frame,

text = "Remove",

width = 15,

bg='#D4AC0D', font=("arial", "14", "bold"),

command = delete\_task,

)

del\_all\_button = Button(

functions\_frame,

text = "Delete All",

width = 15,

font=("arial", "14", "bold"),

bg='#D4AC0D',

command = delete\_all\_tasks

)

exit\_button = Button(

functions\_frame,

text = "Exit / Close",

width = 52,

bg='#D4AC0D', font=("arial", "14", "bold"),

command = close

)

add\_button.place(x = 18, y = 80,)

del\_button.place(x = 240, y = 80)

del\_all\_button.place(x = 460, y = 80)

exit\_button.place(x = 17, y = 330)

task\_listbox = Listbox(

functions\_frame,

width = 70,

height = 9,

font="bold",

selectmode = 'SINGLE',

background = "WHITE",

foreground="BLACK",

selectbackground = "#FF8C00",

selectforeground="BLACK"

)

task\_listbox.place(x = 17, y = 140)

retrieve\_database()

list\_update()

guiWindow.mainloop()

the\_connection.commit()

the\_cursor.close()