**LAB NO: 14**

**QNO 1. Create a student database record using tkinter**

**INPUT:**

from tkinter import\*

from tkinter import ttk

from tkinter import messagebox

import pypyodbc

root=Tk()

#variable

IDvar=StringVar()

Namevar=StringVar()

Phonevar=StringVar()

Addressvar=StringVar()

def display():

conn = pypyodbc.connect(r'Driver={Microsoft Access Driver (\*.mdb)};', DBQ='d:\std.mdb;')

cursor = conn.cursor()

cursor.execute("select \* from student ORDER by ID ")

rows = cursor.fetchall()

if len(rows) != 0:

for row in rows:

stable.insert('', END, values=row)

conn.commit()

conn.close()

def add\_std():

conn = pypyodbc.connect(r'Driver={Microsoft Access Driver (\*.mdb)};', DBQ='d:\std.mdb;')

cur = conn.cursor()

cur.execute( f"INSERT INTO student (ID,Name,Phone,Address) values('{IDvar.get()}','{Namevar.get()}','{Phonevar.get()}','{Addressvar.get()}')")

conn.commit()

display()

messagebox.showinfo("One record has been added")

conn.close()

def del\_std(self):

conn = pypyodbc.connect(r'Driver={Microsoft Access Driver (\*.mdb)};', DBQ='d:\std.mdb;')

cur = conn.cursor()

cur.execute(f"DELETE FROM student where ID='{self.IDvar.get()}'")

conn.commit()

self.display()

messagebox.showinfo("hello", 'One record has been deleted')

conn.close()

def upd\_std(self):

conn = pypyodbc.connect(r'Driver={Microsoft Access Driver (\*.mdb)};', DBQ='d:\std.mdb;')

cur = conn.cursor()

cur.execute(f"UPDATE student set Address='{self.Addressvar.get()}' where ID='{self.IDvar.get()}'")

conn.commit()

self.display()

messagebox.showinfo("hello", 'One record has been Updated')

conn.close()

t=Label(root,text="Student Management System",font=("times new roman",40,"bold"),bg="gold",fg="red",bd=10)

t.pack(side=TOP,fill=X)

m=Frame(root,bd=4,bg='grey')

m.place(x=20,y=100,width=450,height=700)

l1=Label(m,text="std ID",font=("times new roman",15,"bold"),bg="yellow",width=10).grid(row=0,column=0,padx=10,pady=10)

l2=Label(m,text="Std name",font=("times new roman",15,"bold"),bg="yellow",width=10).grid(row=1,column=0,pady=10)

l3 = Label(m, text="Phone" ,font=("times new roman",15,"bold"),bg="yellow",width=10).grid(row=2, column=0, pady=10)

l4 = Label(m, text="Address" ,font=("times new roman",15,"bold"),bg="yellow",width=10).grid(row=3, column=0, pady=10)

l5 = Label(m, text="Program" ,font=("times new roman",15,"bold"),bg="yellow",width=15).grid(row=4, column=0, pady=10)

l6 = Label(m, text="Comments" ,font=("times new roman",15,"bold"),bg="yellow",width=15).grid(row=5, column=0, pady=10)

ID = Entry(m,textvariable=IDvar,width=20)

ID.grid(row=0, column=1, pady=15)

Name=Entry(m, textvariable=Namevar,width=20)

Name.grid(row=1,column=1,pady=15)

Phone=Entry(m, textvariable=Phonevar,width=20)

Phone.grid(row=2, column=1, pady=15)

Address = Entry(m, textvariable=Addressvar,width=20)

Address.grid(row=3, column=1, pady=15)

b1=Button(m,text="display",bd=8,font=("times new roman",15,"bold"),bg="red",command=display,width=10).grid(row=7,column=0,padx=10,pady=20)

b2=Button(m, text="Insert",bd=8, font=("times new roman",15,"bold"),bg="red",command=add\_std,width=10).grid(row=7, column=1, pady=10)

b3=Button(m, text="Update",bd=8,font=("times new roman",15,"bold"),bg="red", command=upd\_std,width=10).grid(row=8, column=0, pady=10)

b4=Button(m, text="Delete",bd=8,font=("times new roman",15,"bold"),bg="red",command=del\_std, width=10).grid(row=8, column=1, pady=10)

program=ttk.Combobox(m)

program['values']=("CSIT","BESE","BEEE","BECE")

program.grid(row=4,column=1,padx=10,pady=20)

comm = Text(m, width=15,height=5)

comm.grid(row=5, column=1, padx=15,pady=20)

# Another frame

m1=Frame(root, bd=4, bg='grey')

m1.place(x=450, y=100, width=850, height=700)

stable=ttk.Treeview(m1,height=700,columns=("ID","Name","Phone","Address"))

stable.pack()

display()

root.mainloop()

**OUTPUT:**

