

1.Design any creative application from the exercises that have been taught to you in this lab. Such as POS systems for any Pharmacy, or any grocery store, or BBQ restaurant, or Pizza Hut or any application which you like.

## Source Code:

```
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()
```

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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()

```

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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)

```

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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,pad
y=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()

```

**Student Management System**

std ID	<input type="text"/>		
Std name	<input type="text"/>		
Phone	<input type="text"/>		
Address	<input type="text"/>		
Program	<input type="text"/>		
Comments	<div style="border: 1px solid black; height: 30px;"></div>		
display	Insert		

ID	Name	Phone	Address
20	Noman		
200	Zara		
500	Adil		
600	hira		
s10	abc		
s12	Sana		
s13	talha		
s14	Tazeen		
s15	Asif		
s16	faisal		
s17	faisal		
s18	arsal		
s19	hina		
s20	abdullah		
s21	majid		
s23	nwrrenw		
s24	dssdfsdf		
s25	faiza		
s29	sara		
s3	Asma		
s30	Zunaira		
..	..		