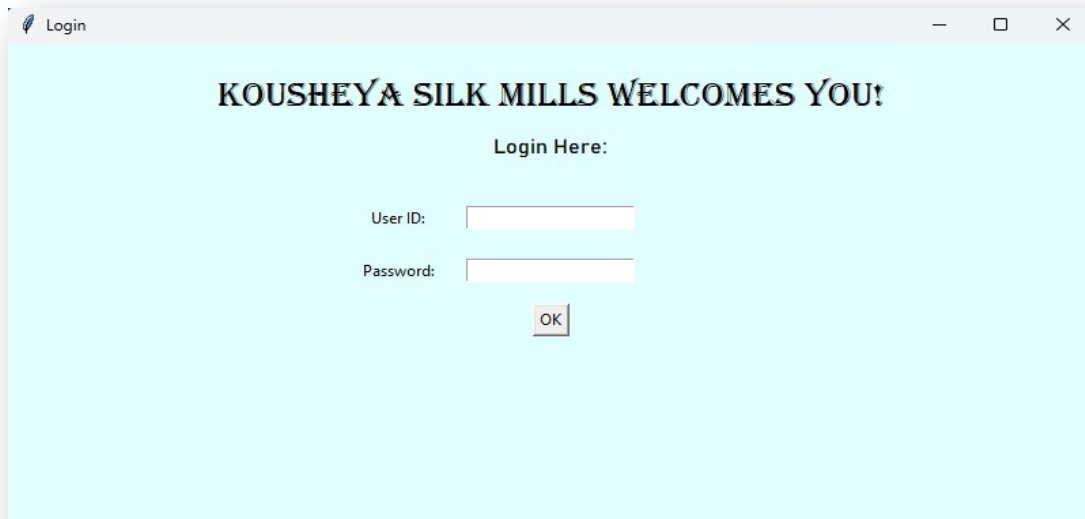


## FRONT END:

- **USER INTERFACE SCREEN**

**Login Form:** User will login here.



A screenshot of a login window titled "Login". The window has a light blue background. At the top, it says "KOUSHEYA SILK MILLS WELCOMES YOU!". Below that, it says "Login Here:". There are two input fields: "User ID:" and "Password:". Below the password field is an "OK" button.

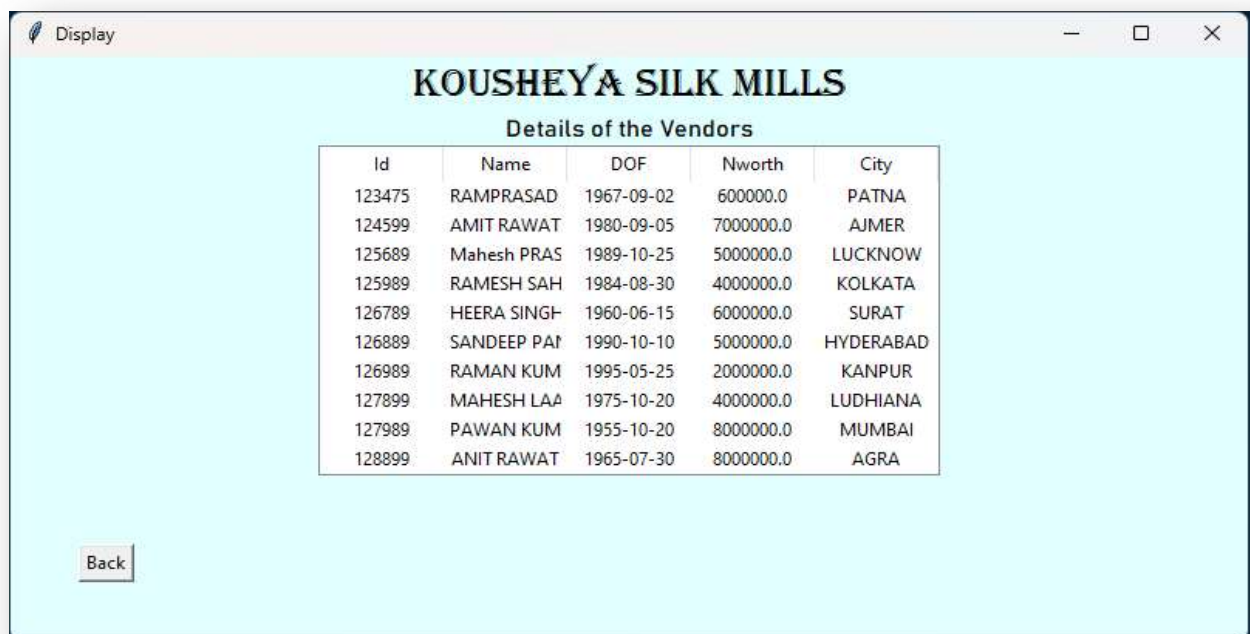
**Choices Window:** User is given various choices to proceed.



A screenshot of a menu window titled "Menu". The window has a light blue background. At the top, it says "KOUSHEYA SILK MILLS WELCOMES YOU!". Below that, there are two radio buttons: "Vendor" and "Fabric". To the right of the "Vendor" radio button is a "Display" button. Below the "Display" button are several other buttons: "Insert", "Update", "Search", "Delete", "Graph", and "Exit".



**Display Window:** Data is displayed here according to chosen option.



Display

## KOUSHEYA SILK MILLS

### Details of the Fabrics

Id	Name	Cost	Quantity	Vid
CAN141	CANVAS	6000.0	8000	129989
CAS151	CASHMERE	5000.0	7000	125689
CHE181	CHENNILE	8000.0	1000	127899
CHI141	CHIFFON	4000.0	6000	126789
COT121	COTTON	7000.0	6000	128899
DEN191	DENIM	9000.0	3000	127989
GOE171	GEORGETTE	7000.0	9000	126989
LIN161	LINEN	6000.0	8000	126889
PAS149	PASHMINA	9000.0	1200	123475
SIL121	SILK	5000.0	4000	124599

Back

**Insert Window:** User can enter data here.

Insert

## KOUSHEYA SILK MILLS

### Insert The Values:

Vid:

Vname:

DOF:

Nworth:

City:

SUBMIT

Back

**Search Window:** Existing data can be found here.



A screenshot of a software window titled "Search". The window has a light blue background and a title bar with standard minimize, maximize, and close buttons. The text "KOUSHEYA SILK MILLS" is centered at the top. Below it, the label "Vid of Vendor:" is followed by a white text input field. In the center of the window is an "Ok" button. In the bottom-left corner is a "Back" button.

Search

KOUSHEYA SILK MILLS

Vid of Vendor:

Ok

Back



A screenshot of a software window titled "Delete". The window has a light blue background and a title bar with standard minimize, maximize, and close buttons. The text "KOUSHEYA SILK MILLS" is centered at the top. Below it, the label "Fcode of Fabric:" is followed by a white text input field. In the center of the window is an "Ok" button. In the bottom-left corner is a "Back" button.

Delete

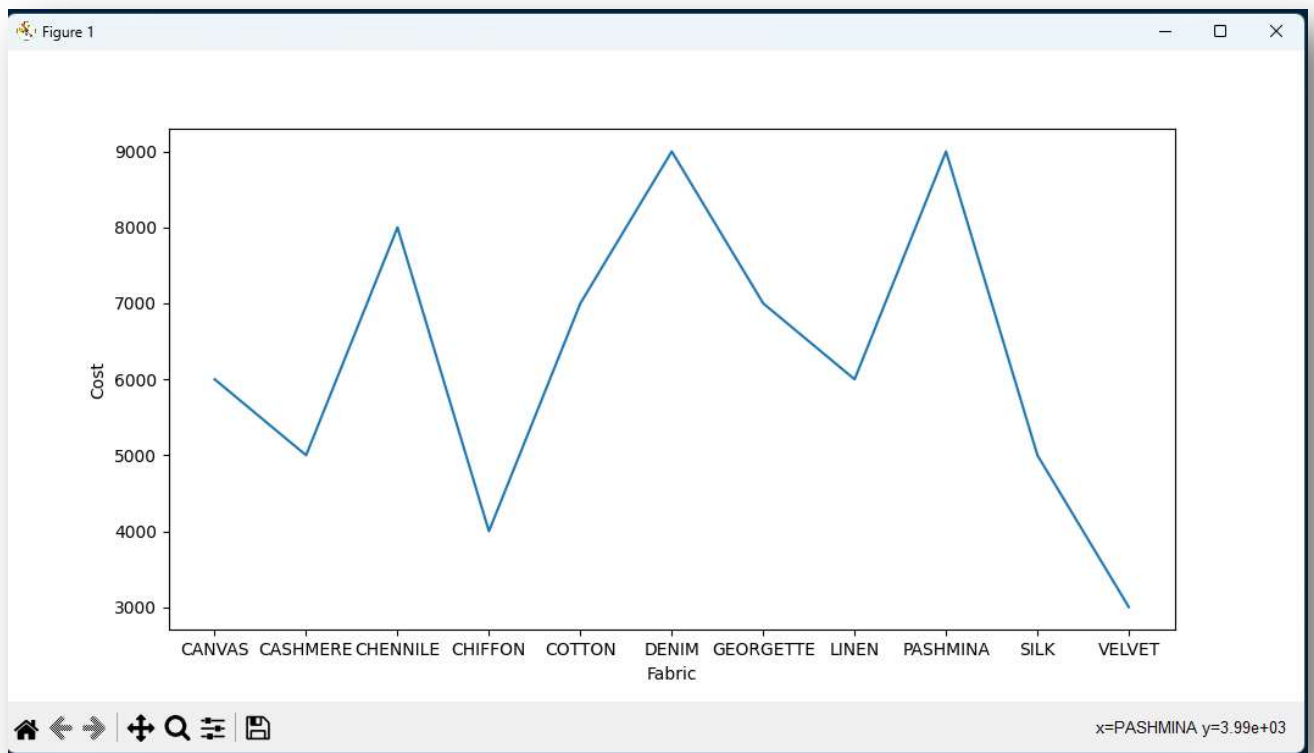
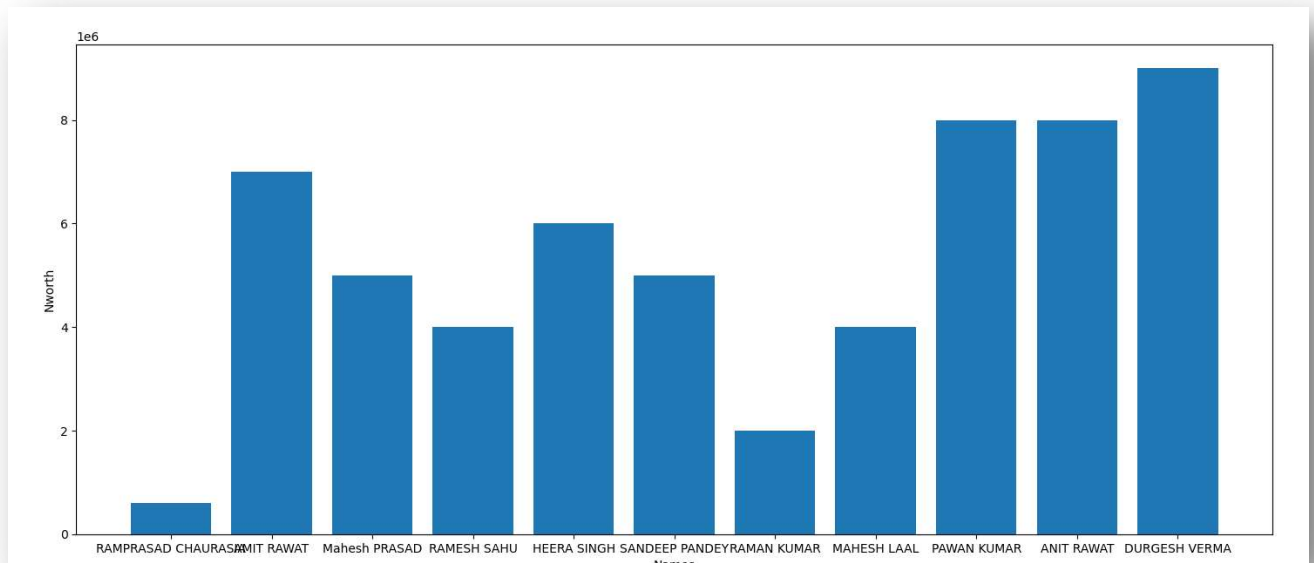
KOUSHEYA SILK MILLS

Fcode of Fabric:

Ok

Back

Graphs: Vendor with their Networkth and Fabric with their cost.



*Exit Window:* Exiting the form.

A screenshot of an IDLE Shell window. The title bar reads "IDLE Shell 3.11.0". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area has a dark blue background and contains the following text: "Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32", "Type 'help', 'copyright', 'credits' or 'license()' for more information.", a separator line of dashes, "==== RESTART: D:\pd\Project.py =====", and "Thanks". There are three red prompt characters ">>>" on the left side of the text area, one before the first line, one before the separator line, and one before the "Thanks" line.

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\pd\Project.py =====
>>> Thanks
>>> |
```

## BACK END:

- **MYSQL TABLE STRUCTURE**

### Vendor Table:

```
mysql> desc vendor;
```

Field	Type	Null	Key	Default	Extra
vid	int(6)	NO	PRI	NULL	
vname	char(20)	YES		NULL	
DOF	date	YES		NULL	
Nworth	double	YES		NULL	
City	char(10)	YES		NULL	

```
5 rows in set (0.19 sec)
```

```
mysql> select * from vendor;
```

vid	vname	DOF	Nworth	City
124599	AMIT RAWAT	1980-09-05	7000000	AJMER
125689	Mahesh PRASAD	1989-10-25	5000000	LUCKNOW
125989	RAMESH SAHU	1984-08-30	4000000	KOLKATTA
126789	HEERA SINGH	1960-06-15	6000000	SURAT
126889	SANDEEP PANDEY	1990-10-10	5000000	HYDERABAD
126989	RAMAN KUMAR	1995-05-25	2000000	KANPUR
127899	Mahesh Laal	1975-10-20	4000000	LUDHIANA
127989	PAWAN KUMAR	1955-10-20	8000000	MUMBAI
128899	ANIT RAWAT	1965-07-30	8000000	AGRA
129989	DURGESH VERMA	1985-10-15	9000000	AMRITSAR



### Fabric Table:

```
mysql> desc fabric;
```

Field	Type	Null	Key	Default	Extra
Fcode	varchar(6)	NO	PRI		
Fname	char(20)	YES		NULL	
Cost	double	YES		NULL	
Quantity	int(11)	YES		NULL	
vid	int(6)	YES	MUL	NULL	

```
5 rows in set (0.05 sec)
```

```
mysql> select * from fabric;
```

Fcode	Fname	Cost	Quantity	vid
CAN141	CANVAS	6000	8000	129989
CAS151	CASHMERE	5000	7000	125689
CHE181	CHENNILE	8000	1000	127899
CHI141	CHIFFON	4000	6000	126789
COT121	COTTON	7000	6000	128899
DEN191	DENIM	9000	3000	127989
GOE171	GEORGETTE	7000	9000	126989
LIN161	LINEN	6000	8000	126889
SIL121	SILK	2000	4000	124599
VEL131	VELVET	3000	5000	125989

```
10 rows in set (0.00 sec)
```



## ● PROGRAM CODE

```
#-----Start-----
-----

import mysql.connector as p
import matplotlib.pyplot as plt      #importing required modules
import tkinter as tk

cn=p.connect(host='localhost',user='root',passwd='batakh',database='Project32')
#establishing connection

#-----Insert-----
-----

def p_insert():
    def extra():
        z=var.get()
        def extra2():
            ins.destroy()
            menu()
        if z=='vendor':
            def extra1():
                a=E1.get()
                b=E2.get()
                c=E3.get()    #getting values from entries
                d=E4.get()
                e=E5.get()
                w=(a,b,c,d,e)
                cr=cn.cursor()
                q="insert into vendor values {}".format(w)
                cr.execute(q) #executing query
                cn.commit()
                ins.destroy()
```

```
menu()

ins=tk.Tk()#creating window

Choices.destroy() #destroying old window

ins.geometry('800x400')

ins['background']='light cyan'

ins.title('Insert')

M1=tk.Label(ins,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))

M1.place(relx=0.5,rely=0.1,anchor='center')

M1['background']='light cyan'

M2=tk.Label(ins,text='Insert The Values:',justify='center',font=('Calibri',15))

M2.place(relx=0.5,rely=0.2,anchor='center')

M2['background']='light cyan'

L1=tk.Label(ins,text='Vid:',justify='center')

L1.place(relx=0.4,rely=0.3,anchor='center')

L1['background']='light cyan'#labels&Entries

E1=tk.Entry(ins)

E1.place(relx=0.5,rely=0.3,anchor='center')

L2=tk.Label(ins,text='Vname:',justify='center')

L2.place(relx=0.4,rely=0.4,anchor='center')

L2['background']='light cyan'

E2=tk.Entry(ins)

E2.place(relx=0.5,rely=0.4,anchor='center')

L3=tk.Label(ins,text='DOF:',justify='center')

L3.place(relx=0.4,rely=0.5,anchor='center')

L3['background']='light cyan'

E3=tk.Entry(ins)

E3.place(relx=0.5,rely=0.5,anchor='center')

L4=tk.Label(ins,text='Nworth:',justify='center')

L4.place(relx=0.4,rely=0.6,anchor='center')
```

```

L4['background']='light cyan'
E4=tk.Entry(ins)
E4.place(relx=0.5,rely=0.6,anchor='center')
L5=tk.Label(ins,text='City:',justify='center')
L5.place(relx=0.4,rely=0.7,anchor='center')
L5['background']='light cyan'
E5=tk.Entry(ins)
E5.place(relx=0.5,rely=0.7,anchor='center')
B1=tk.Button(ins,text='SUBMIT',command=extra1,justify='center')
B1.place(relx=0.5,rely=0.8,anchor='center')
Bx=tk.Button(ins,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')
elif z=='fabric':
    def extra1():
        a=E1.get()
        b=E2.get()
        c=E3.get()    #getting values from entries
        d=E4.get()
        e=E5.get()
        w=(a,b,c,d,e)
        cr=cn.cursor()
        q="insert into fabric values {}".format(w)
        cr.execute(q) #executing query
        cn.commit()
        ins.destroy()
        menu()
    ins=tk.Tk() #creating window
    Choices.destroy() #destroying old window
    ins.geometry('800x400')

```

```
ins['background']='light cyan'
ins.title('Insert')
M1=tk.Label(ins,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
M1.place(relx=0.5,rely=0.1,anchor='center')
M1['background']='light cyan'
M2=tk.Label(ins,text='Insert The Values:',justify='center',font=('Calibri',15))
M2.place(relx=0.5,rely=0.2,anchor='center')
M2['background']='light cyan'
L1=tk.Label(ins,text='Fcode:',justify='center')
L1.place(relx=0.4,rely=0.3,anchor='center')
L1['background']='light cyan'#labels&Entries
E1=tk.Entry(ins)
E1.place(relx=0.5,rely=0.3,anchor='center')
L2=tk.Label(ins,text='Fname:',justify='center')
L2.place(relx=0.4,rely=0.4,anchor='center')
L2['background']='light cyan'
E2=tk.Entry(ins)
E2.place(relx=0.5,rely=0.4,anchor='center')
L3=tk.Label(ins,text='Cost:',justify='center')
L3.place(relx=0.4,rely=0.5,anchor='center')
L3['background']='light cyan'
E3=tk.Entry(ins)
E3.place(relx=0.5,rely=0.5,anchor='center')
L4=tk.Label(ins,text='Quantity:',justify='center')
L4.place(relx=0.4,rely=0.6,anchor='center')
L4['background']='light cyan'
E4=tk.Entry(ins)
E4.place(relx=0.5,rely=0.6,anchor='center')
L5=tk.Label(ins,text='Vid:',justify='center')
```

```

L5.place(relx=0.4,relly=0.7,anchor='center')
L5['background']='light cyan'
E5=tk.Entry(ins)
E5.place(relx=0.5,relly=0.7,anchor='center')
B1=tk.Button(ins,text='SUBMIT',command=extra1,justify='center')
B1.place(relx=0.5,relly=0.8,anchor='center')
Bx=tk.Button(ins,text='Back',command=extra2)
Bx.place(relx=0.1,relly=0.9,anchor='se')

var=tk.StringVar()

R1=tk.Radiobutton(Choices, text="Vendor", variable=var,
value='vendor',command=extra)

R1.place(relx=0.2,relly=0.3,anchor='center')
R1['background']='light cyan'
R2=tk.Radiobutton(Choices, text="Fabric", variable=var, value='fabric',command=extra)
R2.place(relx=0.8,relly=0.3,anchor='center')
R2['background']='light cyan'

#-----Display-----
-----

def p_display():
    from tkinter import ttk
    def extra():
        x=var.get()
        if x=='vendor':
            def extra2():
                disp.destroy()
                menu()
            Choices.destroy()
            disp=tk.Tk()
            disp.geometry('800x400')

```

```
disp['background']='light cyan'
disp.title('Display')
M1=tk.Label(disp,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
M1.pack(side=tk.TOP)
M2=tk.Label(disp,text='Details of the Vendors',justify='center',font='Bahnschrift')
M2.pack(side=tk.TOP)
M1['background']='light cyan'
M2['background']='light cyan'
Bx=tk.Button(disp,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')
h=p_display1()
fr=tk.Frame(disp)
fr.pack(side=tk.BOTTOM)
table=ttk.Treeview(disp)
table['columns'] = ('Vid', 'Vname', 'DOF', 'Nworth', 'City')
table.column("#0", width=0, stretch='NO')
table.column("Vid",anchor='center', width=80)
table.column("Vname",anchor='center',width=80)
table.column("DOF",anchor='center',width=80)
table.column("Nworth",anchor='center',width=80)
table.column("City",anchor='center',width=80)

table.heading("#0",text="",anchor='center')
table.heading("Vid",text="Id",anchor='center')
table.heading("Vname",text="Name",anchor='center')
table.heading("DOF",text="DOF",anchor='center')
table.heading("Nworth",text="Nworth",anchor='center')
table.heading("City",text="City",anchor='center')
```



```

for k in range(len(h)):
    table.insert(parent='',index='end',iid=k,text='',values=h[k])
    table.pack()
elif x=='fabric':
    def extra2():
        disp.destroy()
        menu()
    Choices.destroy()
    disp=tk.Tk()
    disp.geometry('800x400')
    disp['background']='light cyan'
    disp.title('Display')
    i=p_display2()
    M1=tk.Label(disp,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
    M1.pack(side=tk.TOP)
    M2=tk.Label(disp,text='Details of the Fabrics',justify='center',font='Bahnschrift')
    M2.pack(side=tk.TOP)
    M1['background']='light cyan'
    M2['background']='light cyan'
    Bx=tk.Button(disp,text='Back',command=extra2)
    Bx.place(relx=0.1,rely=0.9,anchor='se')
    h=p_display2()
    fr=tk.Frame(disp)
    fr.pack(side=tk.BOTTOM)
    table=ttk.Treeview(disp)
    table['columns'] = ('Fcode', 'Fname', 'Cost', 'Quantity', 'Vid')
    table.column("#0", width=0, stretch='NO')
    table.column("Fcode",anchor='center', width=80)
    table.column("Fname",anchor='center',width=80)

```

```
table.columnn("Cost",anchor='center',width=80)
table.columnn("Quantity",anchor='center',width=80)
table.columnn("Vid",anchor='center',width=80)
```

```
table.heading("#0",text="",anchor='center')
table.heading("Fcode",text="Id",anchor='center')
table.heading("Fname",text="Name",anchor='center')
table.heading("Cost",text="Cost",anchor='center')
table.heading("Quantity",text="Quantity",anchor='center')
table.heading("Vid",text="Vid",anchor='center')
```

```
for k in range(len(h)):
```

```
    table.insert(parent='',index='end',iid=k,text='',values=h[k])
```

```
    table.pack()
```

```
var=tk.StringVar()
```

```
R1=tk.Radiobutton(Choices, text="Vendor", variable=var,
value='vendor',command=extra)
```

```
R1.place(relx=0.2,rely=0.2,anchor='center')
```

```
R1['background']='light cyan'
```

```
R2=tk.Radiobutton(Choices, text="Fabric", variable=var, value='fabric',command=extra)
```

```
R2.place(relx=0.8,rely=0.2,anchor='center')
```

```
R2['background']='light cyan'
```

```
#-----Vendor-----
-----
```

```
def p_display1():
```

```
    cr=cn.cursor()
```

```
    cr.execute("Select * from vendor")
```

```
    d=cr.fetchall()
```

```
    return d
```

```
#-----Fabric-----  
-----
```

```
def p_display2():
```

```
    cr=cn.cursor()
```

```
    cr.execute("Select * from fabric")
```

```
    d=cr.fetchall()
```

```
    return d
```

```
#-----Delete-----  
-----
```

```
def p_delete():
```

```
    def func():
```

```
        z=var1.get()
```

```
        if z=='vendor':
```

```
            def extra2():
```

```
                delt.destroy()
```

```
                menu()
```

```
            delt=tk.Tk()
```

```
                #new window
```

```
            Choices.destroy()
```

```
            delt.geometry('800x400')
```

```
            delt['background']='light cyan'
```

```
            delt.title('Delete')
```

```
            M1=tk.Label(delt,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
```

```
            M1.place(relx=0.5,rely=0.1,anchor='center')
```

```
            M1['background']='light cyan'
```

```
            L1=tk.Label(delt,text='Vid of Vendor:',justify='center')
```

```
            L1.place(relx=0.4,rely=0.3,anchor='center')
```

```
            L1['background']='light cyan'#label&entries
```

```
            E1=tk.Entry(delt,justify='center')
```

```
            E1.place(relx=0.6,rely=0.3,anchor='center')
```

```

def extra():
    a=E1.get()
    cr=cn.cursor()
    q="delete from vendor where Vid={}".format(a)    #executing queries
    cr.execute(q)
    cn.commit()
    delt.destroy()
    menu()
B1=tk.Button(delt,text='Ok',command=extra)
B1.place(relx=0.5,rely=0.5,anchor='center')
Bx=tk.Button(delt,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')
elif z=='fabric':
    def extra2():
        delt.destroy()
        menu()
    delt=tk.Tk()                                #new window
    Choices.destroy()
    delt.geometry('800x400')
    delt['background']='light cyan'
    delt.title('Delete')
    M1=tk.Label(delt,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
    M1.place(relx=0.5,rely=0.1,anchor='center')
    M1['background']='light cyan'
    L1=tk.Label(delt,text='Fcode of Fabric:',justify='center')
    L1.place(relx=0.4,rely=0.3,anchor='center')
    L1['background']='light cyan'#label&entries
    E1=tk.Entry(delt,justify='center')
    E1.place(relx=0.6,rely=0.3,anchor='center')

```

```

def extra():
    a=E1.get()
    cr=cn.cursor()
    q="delete from fabric where Fcode='{}'.format(a)    #executing queries
    cr.execute(q)
    cn.commit()
    del t.destroy()
    menu()

B1=tk.Button(delt,text='Ok',command=extra)
B1.place(relx=0.5,rely=0.5,anchor='center')
Bx=tk.Button(delt,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')

var1=tk.StringVar()
R1=tk.Radiobutton(Choices, text="Vendor", variable=var1,
value='vendor',command=func)
R1.place(relx=0.2,rely=0.6,anchor='center')
R1['background']='light cyan'
R2=tk.Radiobutton(Choices, text="Fabric", variable=var1, value='fabric',command=func)
R2.place(relx=0.8,rely=0.6,anchor='center')
R2['background']='light cyan'

#-----Update-----
-----

def p_update():
    def func():
        w=var1.get()
        if w=='vendor':
            def extra2():
                upd.destroy()
                menu()

```

```

def sel():
    cr=cn.cursor()
    x=var.get()
    if x=='vid' or x=='Nworth':
        def extra():
            xx=E1.get()
            yy=E2.get()
            q="update vendor set {}={} where Vid={}".format(x,xx,yy)
            cr.execute(q)
            cn.commit()
            upd.destroy()
            menu()

        L1=tk.Label(upd,text='New Value:',justify='center')
        L1.place(relx=0.54,rely=0.3,anchor='center')
        L1['background']='light cyan'#1
        E1=tk.Entry(upd,justify='center')
        E1.place(relx=0.54,rely=0.35,anchor='center')#2
        L2=tk.Label(upd,text='Whose value is to be updated:',justify='center')
        L2.place(relx=0.54,rely=0.4,anchor='center')
        L2['background']='light cyan'#3
        E2=tk.Entry(upd,justify='center')
        E2.place(relx=0.54,rely=0.45,anchor='center')#4
        B1=tk.Button(upd,text='OK',command=extra,justify='center')
        B1.place(relx=0.54,rely=0.5,anchor='center')#5
    elif x=='vname' or x=='dof' or x=='city':
        def extra():
            xx=E1.get()
            yy=E2.get()
            q="update vendor set {}='{}' where Vid={}".format(x,xx,yy)

```



```

cr.execute(q)
cn.commit()
upd.destroy()
menu()

L1=tk.Label(upd,text='New Value:',justify='center')
L1.place(relx=0.54,rely=0.3,anchor='center')
L1['background']='light cyan'#1
E1=tk.Entry(upd,justify='center')
E1.place(relx=0.54,rely=0.35,anchor='center')#2
L2=tk.Label(upd,text='Whose value is to be updated:',justify='center')
L2.place(relx=0.54,rely=0.4,anchor='center')
L2['background']='light cyan'#3
E2=tk.Entry(upd,justify='center')
E2.place(relx=0.54,rely=0.45,anchor='center')#4
B1=tk.Button(upd,text='OK',command=extra,justify='center')
B1.place(relx=0.54,rely=0.5,anchor='center')#5

Choices.destroy()
upd=tk.Tk()
var=tk.StringVar()
upd.geometry('800x400')
upd['background']='light cyan'
upd.title('Update')
M1=tk.Label(upd,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
M1.place(relx=0.5,rely=0.1,anchor='center')
M1['background']='light cyan'
R1=tk.Radiobutton(upd, text="Vid", variable=var, value='vid',command=sel)
R1.place(relx=0.2,rely=0.3,anchor='center')
R2=tk.Radiobutton(upd, text="Vname", variable=var, value='vname',command=sel)
R2.place(relx=0.2,rely=0.4,anchor='center')

```

```

R3=tk.Radiobutton(upd, text="DOF", variable=var, value='dof',command=sel)
R3.place(relx=0.2,rely=0.5,anchor='center')
R4=tk.Radiobutton(upd, text="Nworth", variable=var,
value='Nworth',command=sel)
R4.place(relx=0.2,rely=0.6,anchor='center')
R5=tk.Radiobutton(upd, text="City", variable=var, value='city',command=sel)
R5.place(relx=0.2,rely=0.7,anchor='center')
Bx=tk.Button(upd,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')
elif w=='fabric':
    def extra2():
        upd.destroy()
        menu()
    def sel():
        cr=cn.cursor()
        x=var.get()
        if x=='cost' or x=='quantity' or x=='vid':
            def extra():
                xx=E1.get()
                yy=E2.get()
                q="update fabric set {}={} where Fcode='{}'.format(x,xx,yy)
                cr.execute(q)
                cn.commit()
                upd.destroy()
                menu()
            L1=tk.Label(upd,text='New Value:',justify='center')
            L1.place(relx=0.54,rely=0.3,anchor='center')
            L1['background']='light cyan'#1
            E1=tk.Entry(upd,justify='center')

```

```

E1.place(relx=0.54,rely=0.35,anchor='center')#2
L2=tk.Label(upd,text='Whose value is to be updated:',justify='center')
L2.place(relx=0.54,rely=0.4,anchor='center')
L2['background']='light cyan'#3
E2=tk.Entry(upd,justify='center')
E2.place(relx=0.54,rely=0.45,anchor='center')#4
B1=tk.Button(upd,text='OK',command=extra,justify='center')
B1.place(relx=0.54,rely=0.5,anchor='center')#5
elif x=='fname' or x=='fcode':
    def extra():
        xx=E1.get()
        yy=E2.get()
        q="update fabric set {}='{}' where Fcode='{}'".format(x,xx,yy)
        cr.execute(q)
        cn.commit()
        upd.destroy()
        menu()
    L1=tk.Label(upd,text='New Value:',justify='center')
    L1.place(relx=0.54,rely=0.3,anchor='center')
    L1['background']='light cyan'#1
    E1=tk.Entry(upd,justify='center')
    E1.place(relx=0.54,rely=0.35,anchor='center')#2
    L2=tk.Label(upd,text='Whose value is to be updated:',justify='center')
    L2.place(relx=0.54,rely=0.4,anchor='center')
    L2['background']='light cyan'#3
    E2=tk.Entry(upd,justify='center')
    E2.place(relx=0.54,rely=0.45,anchor='center')#4
    B1=tk.Button(upd,text='OK',command=extra,justify='center')
    B1.place(relx=0.54,rely=0.5,anchor='center')#5

```

```

Choices.destroy()
upd=tk.Tk()
var=tk.StringVar()
upd.geometry('800x400')
upd['background']='light cyan'
upd.title('Update')
M1=tk.Label(upd,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
M1.place(relx=0.5,rely=0.1,anchor='center')
M1['background']='light cyan'
R1=tk.Radiobutton(upd, text="Fcode", variable=var, value='fcode',command=sel)
R1.place(relx=0.2,rely=0.3,anchor='center')
R2=tk.Radiobutton(upd, text="Fname", variable=var, value='fname',command=sel)
R2.place(relx=0.2,rely=0.4,anchor='center')
R3=tk.Radiobutton(upd, text="Cost", variable=var, value='cost',command=sel)
R3.place(relx=0.2,rely=0.5,anchor='center')
R4=tk.Radiobutton(upd, text="Quantity", variable=var,
value='quantity',command=sel)
R4.place(relx=0.2,rely=0.6,anchor='center')
R5=tk.Radiobutton(upd, text="Vid", variable=var, value='vid',command=sel)
R5.place(relx=0.2,rely=0.7,anchor='center')
Bx=tk.Button(upd,text='Back',command=extra2)
Bx.place(relx=0.1,rely=0.9,anchor='se')#updating
var1=tk.StringVar()
R1=tk.Radiobutton(Choices, text="Vendor", variable=var1,
value='vendor',command=func)
R1.place(relx=0.2,rely=0.4,anchor='center')
R1['background']='light cyan'
R2=tk.Radiobutton(Choices, text="Fabric", variable=var1, value='fabric',command=func)
R2.place(relx=0.8,rely=0.4,anchor='center')

```

```
R2['background']='light cyan'
```

```
#-----Search-----  
-----
```

```
def p_search():
```

```
    def func():
```

```
        z=var1.get()
```

```
        if z=='vendor':
```

```
            def extra2():
```

```
                sear.destroy()
```

```
                menu()
```

```
            sear=tk.Tk()
```

```
            Choices.destroy()
```

```
            sear['background']='light cyan'
```

```
            sear.geometry('800x400')
```

```
            sear.title('Search')
```

```
            M1=tk.Label(sear,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
```

```
            M1.place(relx=0.5,rely=0.1,anchor='center')
```

```
            M1['background']='light cyan'
```

```
            L1=tk.Label(sear,text='Vid of Vendor:',justify='center')
```

```
            L1.place(relx=0.4,rely=0.3,anchor='center')
```

```
            L1['background']='light cyan'
```

```
            E1=tk.Entry(sear)
```

```
            E1.place(relx=0.6,rely=0.3,anchor='center')
```

```
            def extra():
```

```
                x=E1.get()
```

```
                h=p_display1()
```

```
                for k in h:
```

```
                    if int(x)==k[0]:
```

```
                        T=tk.Text(sear, height=6,width =40)
```

```
                        #text field
```

```

        T.place(relx=0.5, rely=0.8, anchor='center')
        T.insert(tk.END,k)
        break
    else:
        w=tk.Label(sear,text='Record not present',fg='Red')
        w.place(relx=0.5, rely=0.6, anchor='center')
        w['background']='light cyan'
    B1=tk.Button(sear,text='Ok',command=extra)
    B1.place(relx=0.5,rely=0.5,anchor='center')
    Bx=tk.Button(sear,text='Back',command=extra2)
    Bx.place(relx=0.1,rely=0.9,anchor='se')
elif z=='fabric':
    def extra2():
        sear.destroy()
        menu()
    sear=tk.Tk()
    Choices.destroy()
    sear['background']='light cyan'
    sear.geometry('800x400')
    sear.title('Search')
    M1=tk.Label(sear,text='Kousheya Silk Mills',justify='center',font=('Algerian',20))
    M1.place(relx=0.5,rely=0.1,anchor='center')
    M1['background']='light cyan'
    L1=tk.Label(sear,text='Fcode of Fabric:',justify='center')
    L1.place(relx=0.4,rely=0.3,anchor='center')
    L1['background']='light cyan'
    E1=tk.Entry(sear)
    E1.place(relx=0.6,rely=0.3,anchor='center')
    def extra():

```



```

x=E1.get()
h=p_display2()
for k in h:
    if x==k[0]:
        T=tk.Text(scar, height=6,width =40)                #text field
        T.place(relx=0.5, rely=0.8, anchor='center')
        T.insert(tk.END,k)
        break
    else:
        w=tk.Label(scar,text='Record not present',fg='Red')
        w.place(relx=0.5, rely=0.6, anchor='center')
        w['background']='light cyan'
        B1=tk.Button(scar,text='Ok',command=extra)
        B1.place(relx=0.5,rely=0.5,anchor='center')
        Bx=tk.Button(scar,text='Back',command=extra2)
        Bx.place(relx=0.1,rely=0.9,anchor='se')
var1=tk.StringVar()
R1=tk.Radiobutton(Choices, text="Vendor", variable=var1,
value='vendor',command=func)
R1.place(relx=0.2,rely=0.5,anchor='center')
R1['background']='light cyan'
R2=tk.Radiobutton(Choices, text="Fabric", variable=var1, value='fabric',command=func)
R2.place(relx=0.8,rely=0.5,anchor='center')
R2['background']='light cyan'
#-----Graph-----
-----
def p_graph():
    def func():
        z=var1.get()

```

```
if z=='vendor':
```

```
    Choices.destroy()
```

```
    t=p_display1()
```

```
    x=[];y=[]
```

```
    for k in t:
```

```
        x.append(k[1])
```

```
        y.append(k[3])
```

```
    plt.bar(x,y)
```

```
    plt.xlabel('Names')
```

```
    plt.ylabel('Nworth')
```

```
    plt.show()
```

```
    menu()
```

```
elif z=='fabric':
```

```
    Choices.destroy()
```

```
    t=p_display2()
```

```
    x=[];y=[]
```

```
    for k in t:
```

```
        x.append(k[1])
```

```
        y.append(k[2])
```

```
    plt.plot(x,y)
```

```
    plt.xlabel('Fabric')
```

```
    plt.ylabel('Cost')
```

```
    plt.show()
```

```
    menu()
```

```
var1=tk.StringVar()
```

```
R1=tk.Radiobutton(Choices, text="Vendor", variable=var1,  
value='vendor',command=func)
```

```
R1.place(relx=0.2,rely=0.7,anchor='center')
```

```
R1['background']='light cyan'
```

```

R2=tk.Radiobutton(Choices, text="Fabric", variable=var1, value='fabric',command=func)
R2.place(relx=0.8,rely=0.7,anchor='center')
R2['background']='light cyan'

#-----Exit-----
-----

def p_exit():
    Choices.destroy()
    cn.close()
    print('Thanks')

#-----Menu-----
-----

def menu():
    global Choices
    Choices=tk.Tk()
    Choices.geometry('800x400')
    Choices['background']='light cyan'
    Choices.title('Menu')

    M1=tk.Label(Choices,text='Kousheya Silk Mills Welcomes
You!',justify='center',font=('Algerian',20))
    M1.place(relx=0.5,rely=0.1,anchor='center')
    M1['background']='light cyan'
    q1=tk.Button(Choices,text='Display',command=p_display,justify='center')
    q1.place(relx=0.5,rely=0.2,anchor='center')
    q2=tk.Button(Choices,text='Insert',command=p_insert,justify='center')
    q2.place(relx=0.5,rely=0.3,anchor='center')
    q3=tk.Button(Choices,text='Update',command=p_update,justify='center')
    q3.place(relx=0.5, rely=0.4, anchor='center')
    q4=tk.Button(Choices,text='Search',command=p_search,justify='center')
    q4.place(relx=0.5, rely=0.5, anchor='center')
    q5=tk.Button(Choices,text='Delete',command=p_delete,justify='center')

```

```
q5.place(relx=0.5, rely=0.6, anchor='center')
q6=tk.Button(Choices,text='Graph',command=p_graph,justify='center')
q6.place(relx=0.5, rely=0.7, anchor='center')
q7=tk.Button(Choices,text='Exit',command=p_exit,justify='center')
q7.place(relx=0.5, rely=0.8, anchor='center')
```

```
#-----Verifiying-----
-----
```

```
def check():
    ud=E1.get()
    pd=E2.get()
    if ud=='a' and pd=='abc':
        home.destroy()
        menu()
    else:
        w=tk.Label(home,text='Invalid Username or Password',fg='Red')
        w.place(relx=0.5, rely=0.6, anchor='center')
        w['background']='light cyan'
```

```
#-----Login Form-----
-----
```

```
home=tk.Tk()
home.geometry("800x400")
home['background']='light cyan'
home.title('Login')
M1=tk.Label(home,text='Kousheya Silk Mills Welcomes
You!',justify='center',font=('Algerian',20))
M1.place(relx=0.5,rely=0.1,anchor='center')
M1['background']='light cyan'
M2=tk.Label(home,text='Login Here:',justify='center',font='Bahnschrift')
M2.place(relx=0.5,rely=0.2,anchor='center')
M2['background']='light cyan'
```

```
L1=tk.Label(home,text='User ID:',justify='center')
L1.place(relx=0.36,rely=0.345,anchor='center')
L1['background']='light cyan'
E1=tk.Entry(home)
E1.place(relx=0.5,rely=0.345,anchor='center')
L2=tk.Label(home,text='Password:',justify='center')
L2.place(relx=0.36,rely=0.45,anchor='center')
L2['background']='light cyan'
E2=tk.Entry(home,show='*')
E2.place(relx=0.5,rely=0.45,anchor='center')
B1=tk.Button(home,text='OK',command=check,justify='center')
B1.place(relx=0.5, rely=0.55, anchor='center')
L3=tk.Label(home,text='Prepared by Shreyash, Shreyansh, Sumit')
L3.place(x=1,rely=1,anchor='sw')
L3['background']='light cyan'
tk.mainloop()
```

```
#-----The End-----
-----
```