

```
from tkinter import *
from tkinter.ttk import Treeview
from PIL import ImageTk, Image
from tkinter import messagebox
import csv

same = True
n = 1

def addorder():
    root = Tk()
    root.title("Factory")
    root.minsize(width=400, height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)

    Canvas1.config(bg="#ff6e40")
    Canvas1.pack(expand=True, fill=BOTH)

    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)

    headingLabel = Label(headingFrame1, text="Order Details", bg='black', fg='white', font=('Courier',
15))
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)

    tableFrame1 = Frame(root, bg='black', bd=5)
    tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.6)
```

```
lb2 = Label(tableFrame1, text="Name : ", bg='black', fg='white')
```

```
lb2.place(relx=0.05, rely=0.15, relheight=0.08)
```

```
orderInfo2 = Entry(tableFrame1)
```

```
orderInfo2.place(relx=0.3, rely=0.15, relwidth=0.62, relheight=0.08)
```

```
lb3 = Label(tableFrame1, text="Quantity : ", bg='black', fg='white')
```

```
lb3.place(relx=0.05, rely=0.30, relheight=0.08)
```

```
orderInfo3 = Entry(tableFrame1)
```

```
orderInfo3.place(relx=0.3, rely=0.30, relwidth=0.62, relheight=0.08)
```

```
lb4 = Label(tableFrame1, text="Status : ", bg='black', fg='white')
```

```
lb4.place(relx=0.05, rely=0.45, relheight=0.08)
```

```
orderInfo4 = Entry(tableFrame1)
```

```
orderInfo4.place(relx=0.3, rely=0.45, relwidth=0.62, relheight=0.08)
```

```
lb5 = Label(tableFrame1, text="Client Name : ", bg='black', fg='white')
```

```
lb5.place(relx=0.05, rely=0.6, relheight=0.08)
```

```
orderInfo5 = Entry(tableFrame1)
```

```
orderInfo5.place(relx=0.3, rely=0.6, relwidth=0.62, relheight=0.08)
```

```
lb6 = Label(tableFrame1, text="Client Details : ", bg='black', fg='white')
```

```
lb6.place(relx=0.05, rely=0.75, relheight=0.08)
```

```
orderInfo6 = Entry(tableFrame1)
```

```
orderInfo6.place(relx=0.3, rely=0.75, relwidth=0.62, relheight=0.08)
```

```
SubmitBtn = Button(root, text="SUBMIT", bg='#d1ccc0', fg='black', command=success)
```

```
SubmitBtn.place(relx=0.28, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.53, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
def removeorder():
```

```
    root = Tk()
```

```
    root.title("Factory")
```

```
    root.minsize(width=400, height=400)
```

```
    root.geometry("600x500")
```

```
    Canvas1 = Canvas(root)
```

```
    Canvas1.config(bg="#ff6e40")
```

```
    Canvas1.pack(expand=True, fill=BOTH)
```

```
    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
```

```
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)
```

```
    headingLabel = Label(headingFrame1, text="Order Details", bg='black', fg='white', font=('Courier',  
15))
```

```
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)
```

```
    tableFrame1 = Frame(root, bg='black', bd=5)
```

```
    tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.6)
```

```
    lb2 = Label(tableFrame1, text="Name : ", bg='black', fg='white')
```

```
    lb2.place(relx=0.05, rely=0.15, relheight=0.08)
```

```
    orderInfo2 = Entry(tableFrame1)
```

```
orderInfo2.place(relx=0.3, rely=0.15, relwidth=0.62, relheight=0.08)
```

```
lb3 = Label(tableFrame1, text="Quantity : ", bg='black', fg='white')
```

```
lb3.place(relx=0.05, rely=0.30, relheight=0.08)
```

```
orderInfo3 = Entry(tableFrame1)
```

```
orderInfo3.place(relx=0.3, rely=0.30, relwidth=0.62, relheight=0.08)
```

```
lb4 = Label(tableFrame1, text="Status : ", bg='black', fg='white')
```

```
lb4.place(relx=0.05, rely=0.45, relheight=0.08)
```

```
orderInfo4 = Entry(tableFrame1)
```

```
orderInfo4.place(relx=0.3, rely=0.45, relwidth=0.62, relheight=0.08)
```

```
lb5 = Label(tableFrame1, text="Client Name : ", bg='black', fg='white')
```

```
lb5.place(relx=0.05, rely=0.6, relheight=0.08)
```

```
orderInfo5 = Entry(tableFrame1)
```

```
orderInfo5.place(relx=0.3, rely=0.6, relwidth=0.62, relheight=0.08)
```

```
lb6 = Label(tableFrame1, text="Client Details : ", bg='black', fg='white')
```

```
lb6.place(relx=0.05, rely=0.75, relheight=0.08)
```

```
orderInfo6 = Entry(tableFrame1)
```

```
orderInfo6.place(relx=0.3, rely=0.75, relwidth=0.62, relheight=0.08)
```

```
SubmitBtn = Button(root, text="SUBMIT", bg='#d1ccc0', fg='black', command=success)
```

```
SubmitBtn.place(relx=0.28, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.53, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
def adddraw():  
    root = Tk()  
    root.title("Factory")  
    root.minsize(width=400, height=400)  
    root.geometry("600x500")  
  
    Canvas1 = Canvas(root)  
  
    Canvas1.config(bg="#12a4d9")  
    Canvas1.pack(expand=True, fill=BOTH)  
  
    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)  
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)  
  
    headingLabel = Label(headingFrame1, text="Raw Material \n Details", bg='black', fg='white',  
font=('Courier', 15))  
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)  
  
    tableFrame1 = Frame(root, bg='black', bd=5)  
    tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.6)  
  
    lb1 = Label(tableFrame1, text="Sno. : ", bg='black', fg='white')  
    lb1.place(relx=0.05, rely=0.2, relheight=0.08)  
  
    orderInfo1 = Entry(tableFrame1)  
    orderInfo1.place(relx=0.3, rely=0.2, relwidth=0.62, relheight=0.08)  
  
    lb2 = Label(tableFrame1, text="Name : ", bg='black', fg='white')  
    lb2.place(relx=0.05, rely=0.35, relheight=0.08)
```

```
orderInfo2 = Entry(tableFrame1)
```

```
orderInfo2.place(relx=0.3, rely=0.35, relwidth=0.62, relheight=0.08)
```

```
lb3 = Label(tableFrame1, text="Quantity : ", bg='black', fg='white')
```

```
lb3.place(relx=0.05, rely=0.50, relheight=0.08)
```

```
orderInfo3 = Entry(tableFrame1)
```

```
orderInfo3.place(relx=0.3, rely=0.50, relwidth=0.62, relheight=0.08)
```

```
lb6 = Label(tableFrame1, text="Distributor : ", bg='black', fg='white')
```

```
lb6.place(relx=0.05, rely=0.65, relheight=0.08)
```

```
orderInfo6 = Entry(tableFrame1)
```

```
orderInfo6.place(relx=0.3, rely=0.65, relwidth=0.62, relheight=0.08)
```

```
SubmitBtn = Button(root, text="SUBMIT", bg='#d1ccc0', fg='black', command=success)
```

```
SubmitBtn.place(relx=0.28, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.53, rely=0.91, relwidth=0.18, relheight=0.08)
```

```
def success():
```

```
    messagebox.showinfo('Task initiated successfully')
```

```
def orderdetails():
```

```
    root = Tk()
```

```
    root.title("Factory")
```

```
    root.minsize(width=400, height=400)
```

```
root.geometry("600x500")
```

```
Canvas1 = Canvas(root)
```

```
Canvas1.config(bg="#ff6e40")
```

```
Canvas1.pack(expand=True, fill=BOTH)
```

```
headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
```

```
headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)
```

```
headingLabel = Label(headingFrame1, text="Details", bg='black', fg='white', font=('Courier', 15))
```

```
headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)
```

```
tableFrame1 = Frame(root, bg='black', bd=5)
```

```
tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.5)
```

```
Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-10s%-70s" % ('Order ID ', 'Name', 'Quantity',  
'Status',
```

```
'Client Name', ' Client Details'), bg='black', fg='white').place(relx=0.07, rely=0.1)
```

```
Label(tableFrame1, text="-----"  
, bg='black', fg='white').place(relx=0.05, rely=0.2)
```

```
Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-20s%-70s" % ('011Au ', 'transistors',  
'500,000', 'Production',
```

```
'HP', 'mountain View'),  
bg='black', fg='white').place(relx=0.07, rely=0.3)
```

```
Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-20s%-70s" % ('221Zp ', 'chipsets ', '50000 ',  
'confirmed',
```

```
'Samsung', 'Seoul'),  
bg='black', fg='white').place(relx=0.07, rely=0.4)
```

```
addBtn = Button(root, text="Add new order", command=addorder)
```

```
addBtn.place(relx=0.53, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
addBtn = Button(root, text="Remove order", command=addorder)
```

```
addBtn.place(relx=0.29, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.77, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
def rawmaterials():
```

```
    root = Tk()
```

```
    root.title("Factory")
```

```
    root.minsize(width=400, height=400)
```

```
    root.geometry("600x500")
```

```
    Canvas1 = Canvas(root)
```

```
    Canvas1.config(bg="#12a4d9")
```

```
    Canvas1.pack(expand=True, fill=BOTH)
```

```
    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
```

```
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)
```

```
    headingLabel = Label(headingFrame1, text="Raw Materials", bg='black', fg='white', font=('Courier',  
15))
```

```
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)
```

```
    tableFrame1 = Frame(root, bg='black', bd=5)
```

```
    tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.5)
```



```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s%-20s" % ('SNo.', 'Name', 'Quantity',  
'Distributor', 'Status'),
```

```
    bg='black',fg='white').place(relx=0.07, rely=0.1)
```

```
Label(tableFrame1, text="-"*90,
```

```
    bg='black', fg='white').place(relx=0.05, rely=0.2)
```

```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s%-20s" % ('1', 'Copper', '7000', 'Bharat  
Metals', 'Ordered'),
```

```
    bg='black', fg='white').place(relx=0.07, rely=0.3)
```

```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s%-20s" % ('2', 'Graphite', '2780', 'Graphite  
Sheet',
```

```
    'Ordered'),
```

```
    bg='black', fg='white').place(relx=0.07, rely=0.4)
```

```
addBtn = Button(root, text="Add new", command=adddraw)
```

```
addBtn.place(relx=0.53, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.77, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
def stocks():
```

```
    root = Tk()
```

```
    root.title("Factory")
```

```
    root.minsize(width=400, height=400)
```

```
    root.geometry("600x500")
```

```
    Canvas1 = Canvas(root)
```

```
    Canvas1.config(bg="#006B38")
```

```
    Canvas1.pack(expand=True, fill=BOTH)
```

```
headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
```

```
headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)
```

```
headingLabel = Label(headingFrame1, text="Stocks", bg='black', fg='white', font=('Courier', 15))
```

```
headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)
```

```
tableFrame1 = Frame(root, bg='black', bd=5)
```

```
tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.5)
```

```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s" % ('SNo.', 'Name', 'Quantity', 'Distributor'),  
bg='black',
```

```
fg='white').place(relx=0.07, rely=0.1)
```

```
Label(tableFrame1, text="-----",
```

```
bg='black', fg='white').place(relx=0.05, rely=0.2)
```

```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s" % ('1', 'Iron', '4500', 'Bharat Metals'),
```

```
bg='black', fg='white').place(relx=0.07, rely=0.3)
```

```
Label(tableFrame1, text="%-10s%-40s%-30s%-20s" % ('2', 'Graphite', '50', 'Graphite Sheet'),
```

```
bg='black', fg='white').place(relx=0.07, rely=0.4)
```

```
image1 = Image.open("Stocks.jpg")
```

```
test = ImageTk.PhotoImage(image1)
```

```
label1 = Label(image=test)
```

```
label1.image = test
```

```
label1.place(x=0.5, y=0.5)"""
```

```
quit_Btn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quit_Btn.place(relx=0.77, rely=0.9, relwidth=0.18, relheight=0.08)
```

```

def statistics():
    root = Tk()
    root.title("Factory")
    root.minsize(width=400, height=400)
    root.geometry("600x500")
    Canvas1 = Canvas(root)

    Canvas1.config(bg="#D6ED17")
    Canvas1.pack(expand=True, fill=BOTH)

    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)

    headingLabel = Label(headingFrame1, text="Statistics", bg='black', fg='white', font=('Courier', 15))
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)

    tableFrame1 = Frame(root, bg='#D6ED17', bd=5)
    tableFrame1.place(relx=0.25, rely=0.25, relwidth=0.9, relheight=0.5)

    Label(tableFrame1, text='Check the latest Company statistics here!!', bg='#D6ED17',
          fg='black').place(relx=0.05, rely=0.01)

    TableMargin = Frame(root, width=500)
    TableMargin.pack(side=TOP)

    scrollbarx = Scrollbar(TableMargin, orient=HORIZONTAL)
    scrollbary = Scrollbar(TableMargin, orient=VERTICAL)

    tree = Treeview(TableMargin, columns=("Governance Factors", "Positive Econ. Profit", "PN 4
Companies",
                                         'Negative Econ. Profit', 'Pos. vs PN4', 'Neg. vs PN4'),

```

```

        height=700, selectmode="extended", yscrollcommand=scrollbary.set,
xscrollcommand=scrollbarx.set)

scrollbary.config(command=tree.yview)
scrollbary.pack(side=RIGHT, fill=Y)
scrollbarx.config(command=tree.xview)
scrollbarx.pack(side=BOTTOM, fill=X)
tree.heading('Governance Factors', text="Governance Factors", anchor=W)
tree.heading('Positive Econ. Profit', text="Positive Econ. Profit", anchor=W)
tree.heading('PN 4 Companies', text="PN 4 Companies", anchor=W)
tree.heading('Negative Econ. Profit', text='Negative Econ. Profit', anchor=W)
tree.heading('Pos. vs PN4', text='Pos. vs PN4', anchor=W)
tree.heading('Neg. vs PN4', text='Neg. vs PN4', anchor=W)
tree.column('#0', stretch=NO, minwidth=0, width=0)
tree.column('#1', stretch=NO, minwidth=0, width=200)
tree.column('#2', stretch=NO, minwidth=0, width=200)
tree.column('#4', stretch=NO, minwidth=0, width=300)
tree.column('#5', stretch=NO, minwidth=0, width=300)
tree.column('#6', stretch=NO, minwidth=0, width=300)
tree.pack()
with open('test.csv') as f:
    reader = csv.DictReader(f, delimiter=',')
    for row in reader:
        GovernanceFactors = row['Governance Factors']
        PositiveEconProfit = row['Positive Econ. Profit']
        PN4Companies = row['PN 4 Companies']
        NegativeEconProfit = row['Negative Econ. Profit']
        PosvsPN4 = row['Pos. vs PN4']
        NegvsPN4 = row['Neg. vs PN4']

        tree.insert("", 0, values=(GovernanceFactors, PositiveEconProfit, PN4Companies,
NegativeEconProfit,
                                PosvsPN4, NegvsPN4))

```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
quitBtn.place(relx=0.82, rely=0.45, relwidth=0.18, relheight=0.08)
```

```
def undelivered():
```

```
    root = Tk()
    root.title("Factory")
    root.minsize(width=400, height=400)
    root.geometry("600x500")
```

```
    Canvas1 = Canvas(root)
```

```
    Canvas1.config(bg="#ff1a1a")
    Canvas1.pack(expand=True, fill=BOTH)
```

```
    headingFrame1 = Frame(root, bg="#FFBB00", bd=5)
    headingFrame1.place(relx=0.25, rely=0.1, relwidth=0.5, relheight=0.13)
```

```
    headingLabel = Label(headingFrame1, text="Undelivered \n Orders", bg='black', fg='white',
font=('Courier', 15))
    headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)
```

```
    tableFrame1 = Frame(root, bg='black', bd=5)
    tableFrame1.place(relx=0.05, rely=0.3, relwidth=0.9, relheight=0.5)
```

```
    Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-10s%-70s" % ('Order ID ', 'Name', 'Quantity',
'Status',
'Client Name', ' Client Details'), bg='black', fg='white').place(relx=0.07, rely=0.1)
    Label(tableFrame1, text="-----"
, bg='black', fg='white').place(relx=0.05, rely=0.2)
```

```
Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-10s%-70s" % ('201Qs ', 'Motherboard ', '2560', 'Complete ',
```

```
        'Sony', 'Seoul'),
```

```
        bg='black', fg='white').place(relx=0.07, rely=0.3)
```

```
Label(tableFrame1, text="%-5s%-20s%-20s%-20s%-10s%-70s" % ('453Ok ', 'Pavilion x360 ', '190', ' Complete ',
```

```
        ' HP ', ' Vietnam'),
```

```
        bg='black', fg='white').place(relx=0.07, rely=0.4)
```

```
quitBtn = Button(root, text="Back", bg='#f7f1e3', fg='black', command=root.destroy)
```

```
quitBtn.place(relx=0.77, rely=0.9, relwidth=0.18, relheight=0.08)
```

```
root = Tk()
```

```
root.title("Factory management")
```

```
root.minsize(width=400, height=400)
```

```
root.geometry("600x500")
```

```
background_image = Image.open("laptops.jpg")
```

```
[imageSizeWidth, imageSizeHeight] = background_image.size
```

```
newImageSizeWidth = int(imageSizeWidth * n)
```

```
if same:
```

```
    newImageSizeHeight = int(imageSizeHeight * n)
```

```
else:
```

```
    newImageSizeHeight = int(imageSizeHeight / n)
```

```
background_image = background_image.resize((newImageSizeWidth, newImageSizeHeight),  
Image.ANTIALIAS)
```

```
img = ImageTk.PhotoImage(background_image)
```

```
Canvas1 = Canvas(root)
```

```
Canvas1.create_image(300, 340, image=img)
```

```
Canvas1.config(bg="white", width=newImageSizeWidth, height=newImageSizeHeight)

Canvas1.pack(expand=True, fill=BOTH)

headingFrame1 = Frame(root, bg="#FFBB00", bd=5)

headingFrame1.place(relx=0.2, rely=0.1, relwidth=0.6, relheight=0.16)

headingLabel = Label(headingFrame1, text="Welcome! To Factory \n Database Management
System", bg='black', fg='white',
                    font=('Courier', 15))

headingLabel.place(relx=0, rely=0, relwidth=1, relheight=1)

btn1 = Button(root, text="Order Details", bg='black', fg='white', command=orderdetails)
btn1.place(relx=0.28, rely=0.4, relwidth=0.45, relheight=0.1)


btn2 = Button(root, text="Raw material inputs", bg='black', fg='white', command=rawmaterials)
btn2.place(relx=0.28, rely=0.5, relwidth=0.45, relheight=0.1)


btn3 = Button(root, text="Stocks", bg='black', fg='white', command=stocks)
btn3.place(relx=0.28, rely=0.6, relwidth=0.45, relheight=0.1)


btn4 = Button(root, text="Statistics", bg='black', fg='white', command=statistics)
btn4.place(relx=0.28, rely=0.7, relwidth=0.45, relheight=0.1)


btn5 = Button(root, text="Undelivered orders", bg='black', fg='white', command=undelivered)
btn5.place(relx=0.28, rely=0.8, relwidth=0.45, relheight=0.1)


quitBtn = Button(root, text="Quit", bg='#f7f1e3', fg='black', command=root.destroy)
quitBtn.place(relx=0.8, rely=0.91, relwidth=0.18, relheight=0.08)

root.mainloop()
```