from tkinter import \*  
from tkinter import filedialog, messagebox  
import random  
import time  
  
  
# Functions  
  
def reset():  
 textReceipt.delete(1.0, END)  
  
  
def save():  
 url = filedialog.asksaveasfile(mode=W, defaultextension='.exe')  
  
 bill\_data = textReceipt.get(1.0, END)  
 url.write(bill\_data)  
 url.close()  
 messagebox.showinfo('Information', 'Your Bill Is Succesfuly Saved!')  
  
 numberLabel = Label(root='Mobile Number', font=('arial', 18, 'underline'), bg='orange', fg='white')  
 numberLabel.pack()  
  
 root.mainloop()  
  
  
def receipt():  
 global billnumber, date  
 textReceipt.delete(1.0, END)  
 x = random.randint(100, 10000)  
 billnumber = 'BILL' + str(x)  
 date = time.strftime('%d/%m/%y')  
 textReceipt.insert(END, 'Receipt Ref:\t\t' + billnumber + '\t\t' + date + '\n')  
 textReceipt.insert(END, '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n')  
 textReceipt.insert(END, ' Items:\t\t Cost of Items(USD)\n')  
 textReceipt.insert(END, '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n')  
 if e\_anesthesia.get() != '0':  
 textReceipt.insert(END, f'Anesthesia\t\t\t{int(e\_anesthesia.get()) \* 10}\n\n')  
  
 if e\_removal.get() != '0':  
 textReceipt.insert(END, f'Removal\t\t\t{int(e\_removal.get()) \* 60}\n\n')  
  
 if e\_caries.get() != '0':  
 textReceipt.insert(END, f'Caries\t\t\t{int(e\_caries.get()) \* 50}\n\n')  
  
 if e\_peridontal.get() != '0':  
 textReceipt.insert(END, f'Peridontal\t\t\t{int(e\_peridontal.get()) \* 40}\n\n')  
  
 if e\_griding.get() != '0':  
 textReceipt.insert(END, f'Griding\t\t\t{int(e\_griding.get()) \* 35}\n\n')  
  
 if e\_guarantee.get() != '0':  
 textReceipt.insert(END, f'Guarantee\t\t\t{int(e\_guarantee.get()) \* 5}\n\n')  
  
 if e\_diagnosis.get() != '0':  
 textReceipt.insert(END, f'Diagnosis\t\t\t{int(e\_diagnosis.get()) \* 10}\n\n')  
  
 if exray.get() != '0':  
 textReceipt.insert(END, f'X-ray\t\t\t{int(exray.get()) \* 90}\n\n')  
  
 if e\_inspection.get() != '0':  
 textReceipt.insert(END, f'Inspection\t\t\t{int(e\_inspection.get()) \* 70}\n\n')  
  
 if e\_stomatitis.get() != '0':  
 textReceipt.insert(END, f'Stomatitis\t\t\t{int(e\_stomatitis.get()) \* 75}\n\n')  
  
 if e\_bracket.get() != '0':  
 textReceipt.insert(END, f'Bracket\t\t\t{int(e\_caries.get()) \* 500}\n\n')  
  
 if e\_transplant.get() != '0':  
 textReceipt.insert(END, f'Transplant\t\t\t{int(e\_caries.get()) \* 150}\n\n')  
  
 if e\_transplantation.get() != '0':  
 textReceipt.insert(END, f'Transplantation\t\t\t{int(e\_transplantation.get()) \* 450}\n\n')  
  
 if e\_seal.get() != '0':  
 textReceipt.insert(END, f'Seal\t\t\t{int(e\_seal.get()) \* 50}\n\n')  
 if e\_crown.get() != '0':  
 textReceipt.insert(END, f'Crown\t\t\t{int(e\_seal.get()) \* 350}\n\n')  
  
 textReceipt.insert(END, '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n')  
  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Cost Of Tooth\t\t\t{priceoftooth} USD\n\n')  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Cost Of Analysis\t\t\t{priceofanalysis} USD\n\n')  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Cost Of Implantation\t\t\t{priceofimplantation} USD\n\n')  
  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Sub Total\t\t\t{subtotalofItems} USD\n\n')  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Service Tax\t\t\t{50} USD\n\n')  
 if costoftoothvar.get() != '0 USD':  
 textReceipt.insert(END, f'Total Cost\t\t\t{subtotalofItems + 50} USD\n\n')  
 textReceipt.insert(END, '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n')  
  
  
def totalcost():  
 global priceoftooth, priceofanalysis, priceofimplantation, subtotalofItems  
 item1 = int(e\_anesthesia.get())  
 item2 = int(e\_removal.get())  
 item3 = int(e\_caries.get())  
 item4 = int(e\_peridontal.get())  
 item5 = int(e\_griding.get())  
  
 item6 = int(e\_guarantee.get())  
 item7 = int(e\_diagnosis.get())  
 item8 = int(exray.get())  
 item9 = int(e\_inspection.get())  
 item10 = int(e\_stomatitis.get())  
  
 item11 = int(e\_bracket.get())  
 item12 = int(e\_transplant.get())  
 item13 = int(e\_transplantation.get())  
 item14 = int(e\_seal.get())  
 item15 = int(e\_crown.get())  
  
 priceoftooth = (item1 \* 10) + (item2 \* 60) + (item3 \* 100) + (item4 \* 50) + (item5 \* 40)  
  
 priceofanalysis = (item6 \* 30) + (item7 \* 120) + (item8 \* 100) + (item9 \* 120) + (item10 \* 50)  
  
 priceofimplantation = (item11 \* 40) + (item12 \* 80) + (item13 \* 30) + (item14 \* 40) + (item15 \* 60)  
  
 costoftoothvar.set(str(priceoftooth) + ' USD')  
 costofanalysisvar.set(str(priceofanalysis) + ' USD')  
 costofimplantationvar.set(str(priceofimplantation) + ' USD')  
  
 subtotalofitems = priceoftooth + priceofanalysis + priceofimplantation  
 subtotalvar.set(str(subtotalofitems) + ' USD')  
  
 servicetaxvar.set('50 USD')  
  
 totalcost = subtotalofitems + 50  
 totalcostvar.set(str(totalcost) + ' USD')  
  
  
def anesthesia():  
 if var1.get() == 1:  
 textanesthesia.config(state=NORMAL)  
 textanesthesia.delete(0, END)  
 textanesthesia.focus()  
 else:  
 textanesthesia.config(state=DISABLED)  
 e\_anesthesia.set('0')  
  
  
def removal():  
 if var2.get() == 1:  
 textremoval.config(state=NORMAL)  
 textremoval.delete(0, END)  
 textremoval.focus()  
 else:  
 textremoval.config(state=DISABLED)  
 e\_removal.set('0')  
  
  
def caries():  
 if var3.get() == 1:  
 textcaries.config(state=NORMAL)  
 textcaries.delete(0, END)  
 textcaries.focus()  
 else:  
 textcaries.config(state=DISABLED)  
 e\_caries.set('0')  
  
  
def peridontal():  
 if var4.get() == 1:  
 textperidontal.config(state=NORMAL)  
 textperidontal.delete(0, END)  
 textperidontal.focus()  
 else:  
 textperidontal.config(state=DISABLED)  
 e\_peridontal.set('0')  
  
  
def griding():  
 if var5.get() == 1:  
 textgriding.config(state=NORMAL)  
 textgriding.delete(0, END)  
 textgriding.focus()  
 else:  
 textgriding.config(state=DISABLED)  
 e\_griding.set('0')  
  
  
def guarantee():  
 if var6.get() == 1:  
 textguarantee.config(state=NORMAL)  
 textguarantee.delete(0, END)  
 textguarantee.focus()  
 else:  
 textguarantee.config(state=DISABLED)  
 e\_guarantee.set('0')  
  
  
def diagnosis():  
 if var7.get() == 1:  
 textdiagnosis.config(state=NORMAL)  
 textdiagnosis.delete(0, END)  
 textdiagnosis.focus()  
 else:  
 textdiagnosis.config(state=DISABLED)  
 e\_guarantee.set('0')  
  
  
def x\_ray():  
 if var8.get() == 1:  
 textxray.config(state=NORMAL)  
 textxray.delete(0, END)  
 textxray.focus()  
 else:  
 textxray.config(state=DISABLED)  
 exray.set('0')  
  
  
def inspection():  
 if var9.get() == 1:  
 textinspection.config(state=NORMAL)  
 textinspection.delete(0, END)  
 textinspection.focus()  
 else:  
 textinspection.config(state=DISABLED)  
 e\_inspection.set('0')  
  
  
def stomatitis():  
 if var10.get() == 1:  
 textstomatitis.config(state=NORMAL)  
 textstomatitis.delete(0, END)  
 textstomatitis.focus()  
 else:  
 textstomatitis.config(state=DISABLED)  
 e\_stomatitis.set('0')  
  
  
def bracket():  
 if var11.get() == 1:  
 textbracket.config(state=NORMAL)  
 textbracket.delete(0, END)  
 textbracket.focus()  
 else:  
 textbracket.config(state=DISABLED)  
 e\_bracket.set('0')  
  
  
def transplant():  
 if var12.get() == 1:  
 texttransplant.config(state=NORMAL)  
 texttransplant.delete(0, END)  
 texttransplant.focus()  
 else:  
 texttransplant.config(state=DISABLED)  
 e\_transplant.set('0')  
  
  
def transplantation():  
 if var13.get() == 1:  
 texttransplantation.config(state=NORMAL)  
 texttransplantation.delete(0, END)  
 texttransplantation.focus()  
 else:  
 texttransplantation.config(state=DISABLED)  
 e\_transplantation.set('0')  
  
  
def seal():  
 if var14.get() == 1:  
 textseal.config(state=NORMAL)  
 textseal.delete(0, END)  
 textseal.focus()  
 else:  
 textseal.config(state=DISABLED)  
 e\_seal.set('0')  
  
  
def crown():  
 if var15.get() == 1:  
 textcrown.config(state=NORMAL)  
 textcrown.delete(0, END)  
 textcrown.focus()  
 else:  
 textcrown.config(state=DISABLED)  
 e\_crown.set('0')  
  
  
root = Tk()  
  
root.geometry('1370x690+0+0')  
  
root.resizable(0, 0)  
  
root.title('DENTAL SERVICE SYSTEM by MupKuHccoH')  
  
root.config(bg='red4')  
  
topFrame = Frame(root, bd=10, relief=RIDGE, bg='firebrick4')  
topFrame.pack(side=TOP)  
  
lableTitle = Label(topFrame, text='Dendal Management System', font=('srisl', 30, 'bold'), fg='yellow', bd=9,  
 bg='red4', width=51)  
lableTitle.grid(row=0, column=0)  
  
# frames  
  
menuFrame = Frame(root, bd=10, relief=RIDGE, bg='firebrick4')  
menuFrame.pack(side=LEFT)  
  
costFrame = Frame(menuFrame, bd=4, relief=RIDGE, bg='firebrick4', pady=10)  
costFrame.pack(side=BOTTOM)  
  
toothsFrame = LabelFrame(menuFrame, text='Tooths', font=('arial', 19, 'bold'), bd=10, relief=RIDGE, fg='red4', )  
toothsFrame.pack(side=LEFT)  
  
analysisFrame = LabelFrame(menuFrame, text='Analysis', font=('arial', 19, 'bold'), bd=10, relief=RIDGE, fg='red4')  
analysisFrame.pack(side=LEFT)  
  
implantationsFrame = LabelFrame(menuFrame, text='Implantations', font=('arial', 19, 'bold'), bd=10, relief=RIDGE,  
 fg='red4')  
implantationsFrame.pack(side=LEFT)  
  
rightFrame = Frame(root, bd=15, relief=RIDGE, bg='red4')  
rightFrame.pack(side=RIGHT)  
  
calcultorFrame = Frame(rightFrame, bd=1, relief=RIDGE, bg='red4')  
calcultorFrame.pack()  
  
reciepFrame = Frame(rightFrame, bd=4, relief=RIDGE, bg='red4')  
reciepFrame.pack()  
  
buttonFrame = Frame(rightFrame, bd=3, relief=RIDGE, bg='red4')  
buttonFrame.pack()  
  
# Variables  
  
var1 = IntVar()  
var2 = IntVar()  
var3 = IntVar()  
var4 = IntVar()  
var5 = IntVar()  
var6 = IntVar()  
var7 = IntVar()  
var8 = IntVar()  
var9 = IntVar()  
var10 = IntVar()  
var11 = IntVar()  
var12 = IntVar()  
var13 = IntVar()  
var14 = IntVar()  
var15 = IntVar()  
  
e\_anesthesia = StringVar()  
e\_removal = StringVar()  
e\_caries = StringVar()  
e\_peridontal = StringVar()  
e\_griding = StringVar()  
  
e\_guarantee = StringVar()  
e\_diagnosis = StringVar()  
exray = StringVar()  
e\_inspection = StringVar()  
e\_stomatitis = StringVar()  
  
e\_bracket = StringVar()  
e\_transplant = StringVar()  
e\_transplantation = StringVar()  
e\_seal = StringVar()  
e\_crown = StringVar()  
  
costoftoothvar = StringVar()  
costofanalysisvar = StringVar()  
costofimplantationvar = StringVar()  
subtotalvar = StringVar()  
servicetaxvar = StringVar()  
totalcostvar = StringVar()  
  
e\_anesthesia.set('0')  
e\_removal.set('0')  
e\_caries.set('0')  
e\_peridontal.set('0')  
e\_griding.set('0')  
  
e\_guarantee.set('0')  
e\_diagnosis.set('0')  
exray.set('0')  
e\_inspection.set('0')  
e\_stomatitis.set('0')  
  
e\_bracket.set('0')  
e\_transplant.set('0')  
e\_transplantation.set('0')  
e\_seal.set('0')  
e\_crown.set('0')  
  
##TOOTH  
  
anesthesia = Checkbutton(toothsFrame, text='Anesthesia', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var1,  
 command=anesthesia)  
anesthesia.grid(row=0, column=0, sticky=W)  
  
removal = Checkbutton(toothsFrame, text='Removal', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var2,  
 command=removal)  
removal.grid(row=1, column=0, sticky=W)  
  
caries = Checkbutton(toothsFrame, text='Caries', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var3,  
 command=caries)  
caries.grid(row=2, column=0, sticky=W)  
  
peridontal = Checkbutton(toothsFrame, text='Peridontal', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var4,  
 command=peridontal)  
peridontal.grid(row=3, column=0, sticky=W)  
  
griding = Checkbutton(toothsFrame, text='Griding', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var5,  
 command=griding)  
griding.grid(row=5, column=0, sticky=W)  
  
# Entry Fields for Tooth Items  
  
textanesthesia = Entry(toothsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_anesthesia)  
textanesthesia.grid(row=0, column=1)  
  
textremoval = Entry(toothsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=e\_removal)  
textremoval.grid(row=1, column=1)  
  
textcaries = Entry(toothsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=e\_caries)  
textcaries.grid(row=2, column=1)  
  
textperidontal = Entry(toothsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_peridontal)  
textperidontal.grid(row=3, column=1)  
  
textgriding = Entry(toothsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=e\_griding)  
textgriding.grid(row=5, column=1)  
  
# Analysis  
  
  
guarantee = Checkbutton(analysisFrame, text='Guarantee', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var6,  
 command=guarantee)  
guarantee.grid(row=0, column=0, sticky=W)  
  
diagnosis = Checkbutton(analysisFrame, text='Diagnosis', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var7,  
 command=diagnosis)  
diagnosis.grid(row=1, column=0, sticky=W)  
  
xray = Checkbutton(analysisFrame, text='X-ray', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var8,  
 command=x\_ray)  
xray.grid(row=2, column=0, sticky=W)  
  
inspection = Checkbutton(analysisFrame, text='Inspection', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var9,  
 command=inspection)  
inspection.grid(row=3, column=0, sticky=W)  
  
stomatitis = Checkbutton(analysisFrame, text='Stomatitis', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var10,  
 command=stomatitis)  
stomatitis.grid(row=4, column=0, sticky=W)  
  
# Entery fields for Analysis Items  
  
textguarantee = Entry(analysisFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_guarantee)  
textguarantee.grid(row=0, column=1)  
  
textdiagnosis = Entry(analysisFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_diagnosis)  
textdiagnosis.grid(row=1, column=1)  
  
textxray = Entry(analysisFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=exray)  
textxray.grid(row=2, column=1)  
  
textinspection = Entry(analysisFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_inspection)  
textinspection.grid(row=3, column=1)  
  
textstomatitis = Entry(analysisFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_stomatitis)  
textstomatitis.grid(row=4, column=1)  
  
# Implantation  
  
bracket = Checkbutton(implantationsFrame, text='Bracket', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var11,  
 command=bracket)  
bracket.grid(row=0, column=0, sticky=W)  
  
transplant = Checkbutton(implantationsFrame, text='Transplant', font=('arial', 18, 'bold'), onvalue=1, offvalue=0,  
 variable=var12,  
 command=transplant)  
transplant.grid(row=1, column=0, sticky=W)  
  
transplantation = Checkbutton(implantationsFrame, text='Transplantation', font=('arial', 18, 'bold'), onvalue=1,  
 offvalue=0, variable=var13,  
 command=transplantation)  
transplantation.grid(row=2, column=0, sticky=W)  
  
seal = Checkbutton(implantationsFrame, text='Seal', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var14,  
 command=seal)  
seal.grid(row=3, column=0, sticky=W)  
  
crown = Checkbutton(implantationsFrame, text='Crown', font=('arial', 18, 'bold'), onvalue=1, offvalue=0, variable=var15,  
 command=crown)  
crown.grid(row=4, column=0, sticky=W)  
  
# Entry for Implantation Items  
  
textbracket = Entry(implantationsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_bracket)  
textbracket.grid(row=0, column=1)  
  
texttransplant = Entry(implantationsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_transplant)  
texttransplant.grid(row=1, column=1)  
  
texttransplantation = Entry(implantationsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED,  
 textvariable=e\_transplantation)  
texttransplantation.grid(row=2, column=1)  
  
textseal = Entry(implantationsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=e\_seal)  
textseal.grid(row=3, column=1)  
  
textcrown = Entry(implantationsFrame, font=('arial', 18, 'bold'), bd=7, width=6, state=DISABLED, textvariable=e\_crown)  
textcrown.grid(row=4, column=1)  
  
# Costlabels & entry fields  
  
labelCostofTooth = Label(costFrame, text='Cost of Tooth', font=('arial', 16, 'bold'), bg='firebrick4', fg='white')  
labelCostofTooth.grid(row=0, column=0)  
  
textCostofTooth = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly',  
 textvariable=costoftoothvar)  
textCostofTooth.grid(row=0, column=1, padx=41)  
  
labelCostofAnalysis = Label(costFrame, text='Cost of Analysis', font=('arial', 16, 'bold'), bg='firebrick4', fg='white')  
labelCostofAnalysis.grid(row=1, column=0)  
  
textCostofAnalysis = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly',  
 textvariable=costofanalysisvar)  
textCostofAnalysis.grid(row=1, column=1, padx=41)  
  
labelCostofImplantation = Label(costFrame, text='Cost of Implantation', font=('arial', 16, 'bold'), bg='firebrick4',  
 fg='white')  
labelCostofImplantation.grid(row=2, column=0)  
  
textCostofImplantation = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly',  
 textvariable=costofimplantationvar)  
textCostofImplantation.grid(row=2, column=1, padx=41)  
  
labelSubTotal = Label(costFrame, text='Sub Total', font=('arial', 16, 'bold'), bg='firebrick4', fg='white')  
labelSubTotal.grid(row=0, column=2)  
  
textSubTotal = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly', textvariable=subtotalvar)  
textSubTotal.grid(row=0, column=3, padx=41)  
  
labelServiceTax = Label(costFrame, text='Service Tax', font=('arial', 16, 'bold'), bg='firebrick4', fg='white')  
labelServiceTax.grid(row=1, column=2)  
  
textServiceTax = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly',  
 textvariable=servicetaxvar)  
textServiceTax.grid(row=1, column=3, padx=41)  
  
labelTotalCost = Label(costFrame, text='Total Cost', font=('arial', 16, 'bold'), bg='firebrick4', fg='white')  
labelTotalCost.grid(row=2, column=2)  
  
textTotalCost = Entry(costFrame, font=('arial', 16, 'bold'), bd=6, width=14, state='readonly',  
 textvariable=totalcostvar)  
textTotalCost.grid(row=2, column=3, padx=41)  
  
# Buttons  
  
buttonTotal = Button(buttonFrame, text='Total', font=('arial', 14, 'bold'), fg='white', bg='red4', bd=3, padx=5,  
 command=totalcost)  
buttonTotal.grid(row=0, column=0)  
  
buttonReceipt = Button(buttonFrame, text='Receipt', font=('arial', 14, 'bold'), fg='white', bg='red4', bd=3, padx=5,  
 command=receipt)  
buttonReceipt.grid(row=0, column=1)  
  
buttonSave = Button(buttonFrame, text='Save', font=('arial', 14, 'bold'), fg='white', bg='red4', bd=3, padx=5,  
 command=save)  
buttonSave.grid(row=0, column=2)  
  
buttonReset = Button(buttonFrame, text='Reset', font=('arial', 14, 'bold'), fg='white', bg='orange', bd=3, padx=5,  
 command=reset)  
  
buttonReset.grid(row=0, column=3)  
  
# textarea for receipt  
  
textReceipt = Text(reciepFrame, font=('arial', 12, 'bold'), bd=3, width=42, height=14)  
textReceipt.grid(row=0, column=0)  
  
# Calculator  
operator = '' # 7+9  
  
  
def buttonClick(numbers): # 9  
 global operator  
 operator = operator + numbers # 7+9  
 calculatorField.delete(0, END)  
 calculatorField.insert(END, operator)  
  
  
def clear():  
 global operator  
 operator = ''  
 calculatorField.delete(0, END)  
  
  
def answer():  
 global operator  
 result = str(eval(operator))  
 calculatorField.delete(0, END)  
 calculatorField.insert(0, result)  
 operator = ''  
  
  
calculatorField = Entry(calcultorFrame, font=('arial', 16, 'bold'), width=32, bd=4)  
calculatorField.grid(row=0, column=0, columnspan=4)  
  
button7 = Button(calcultorFrame, text='7', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('7'))  
button7.grid(row=1, column=0)  
  
button8 = Button(calcultorFrame, text='8', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('8'))  
button8.grid(row=1, column=1)  
  
button9 = Button(calcultorFrame, text='9', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('9'))  
  
button9.grid(row=1, column=2)  
  
buttonPlus = Button(calcultorFrame, text='+', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('+'))  
buttonPlus.grid(row=1, column=3)  
  
button4 = Button(calcultorFrame, text='4', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('4'))  
button4.grid(row=2, column=0)  
  
button5 = Button(calcultorFrame, text='5', font=('arial', 16, 'bold'), fg='red4', bg='white', bd=6, width=6,  
 command=lambda: buttonClick('5'))  
button5.grid(row=2, column=1)  
  
button6 = Button(calcultorFrame, text='6', font=('arial', 16, 'bold'), fg='red4', bg='white', bd=6, width=6,  
 command=lambda: buttonClick('6'))  
button6.grid(row=2, column=2)  
  
buttonMinus = Button(calcultorFrame, text='-', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('-'))  
  
buttonMinus.grid(row=2, column=3)  
0  
button1 = Button(calcultorFrame, text='1', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('1'))  
button1.grid(row=3, column=0)  
  
button2 = Button(calcultorFrame, text='2', font=('arial', 16, 'bold'), fg='red4', bg='white', bd=6, width=6,  
 command=lambda: buttonClick('2'))  
button2.grid(row=3, column=1)  
  
button3 = Button(calcultorFrame, text='3', font=('arial', 16, 'bold'), fg='red4', bg='white', bd=6, width=6,  
 command=lambda: buttonClick('3'))  
button3.grid(row=3, column=2)  
  
buttonMult = Button(calcultorFrame, text='\*', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('\*'))  
buttonMult.grid(row=3, column=3)  
  
buttonAns = Button(calcultorFrame, text='Ans', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=answer)  
buttonAns.grid(row=4, column=0)  
  
buttonClear = Button(calcultorFrame, text='Clear', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=clear)  
buttonClear.grid(row=4, column=1)  
  
button0 = Button(calcultorFrame, text='0', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('0'))  
button0.grid(row=4, column=2)  
  
buttonDiv = Button(calcultorFrame, text='/', font=('arial', 16, 'bold'), fg='yellow', bg='red4', bd=6, width=6,  
 command=lambda: buttonClick('/'))  
buttonDiv.grid(row=4, column=3)  
  
root.mainloop()