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In [ ]: from tkinter import Tk,Radiobutton,Button,Label,StringVar,IntVar,Entry

class TipCalculator():
    def __init__(self):
        window = Tk()
        window.title("Welcome to Tip Calculator Application")
        window.configure(background="skyblue")
        window.geometry("375x250")

        self.meal_cost=StringVar()
        self.tip_percent = IntVar()
        self.tip = StringVar()
        self.total_cost = StringVar()

        tip_percents = Label(window,text="Tip Percentages",bg="purple",fg="white")
        tip_percents.grid(column=0,row=0,padx=15)
        bill_amount = Label(window,text="Bill Amount",bg="Black",fg="white")
        bill_amount.grid(column=1,row=0,padx=15)

        bill_amount_entry = Entry(window,textvariable=self.meal_cost,width=14)
        bill_amount_entry.grid(column=2,row=0)
        window.resizable(width=False,height=False)

        five_percent_tip=Radiobutton(window,text="0.5%",variable=self.tip_percent,value=5)
        five_percent_tip.grid(column=0,row=1)
        ten_percent_tip=Radiobutton(window,text="10%",variable=self.tip_percent,value=10)
        ten_percent_tip.grid(column=0,row=2)
        fifteen_percent_tip=Radiobutton(window,text="15%",variable=self.tip_percent,value=15)
        fifteen_percent_tip.grid(column=0,row=3)
        twenty_percent_tip=Radiobutton(window,text="20%",variable=self.tip_percent,value=20)
        twenty_percent_tip.grid(column=0,row=4)
        twentyfive_percent_tip=Radiobutton(window,text="25%",variable=self.tip_percent,value=25)
        twentyfive_percent_tip.grid(column=0,row=5)
        thirty_percent_tip=Radiobutton(window,text="30%",variable=self.tip_percent,value=30)
        thirty_percent_tip.grid(column=0,row=6)

        tip_amount_lbl = Label(window,text="Tip Amount",bg="Brown",fg="white")
        tip_amount_lbl.grid(column=1,row=3,padx=15)
        tip_amount_lbl_entry= Entry(window,textvariable=self.tip,width=14)
        tip_amount_lbl_entry.grid(column=2,row=3)

        bill_total_lbl = Label(window,text="BillTotal",bg="blue",fg="white")
        bill_total_lbl.grid(column=1,row=5,padx=15)
        bill_total_lbl_entry= Entry(window,textvariable=self.total_cost,width=14)
        bill_total_lbl_entry.grid(column=2,row=5)

        calculate_btn = Button(window,text="Calculate",bg="Red",fg="white",command=self.calculate)
        calculate_btn.grid(column=1,row=7,padx=15)

        clear_btn = Button(window,text="Clear",bg="Yellow",fg="white",command=self.clear)
        clear_btn.grid(column=2,row=7,padx=15)

        window.mainloop()

    def calculate(self):
        pre_tip=float(self.meal_cost.get())
        percentage=self.tip_percent.get()/100
        tip_amount_entry=pre_tip*percentage
        self.tip.set(tip_amount_entry)
        final_bill = pre_tip + tip_amount_entry
        self.total_cost.set(final_bill)

    def clear(self):
        self.total_cost.set("")
        self.meal_cost.set("")
        self.tip.set("")

TipCalculator()
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In [ ]:
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