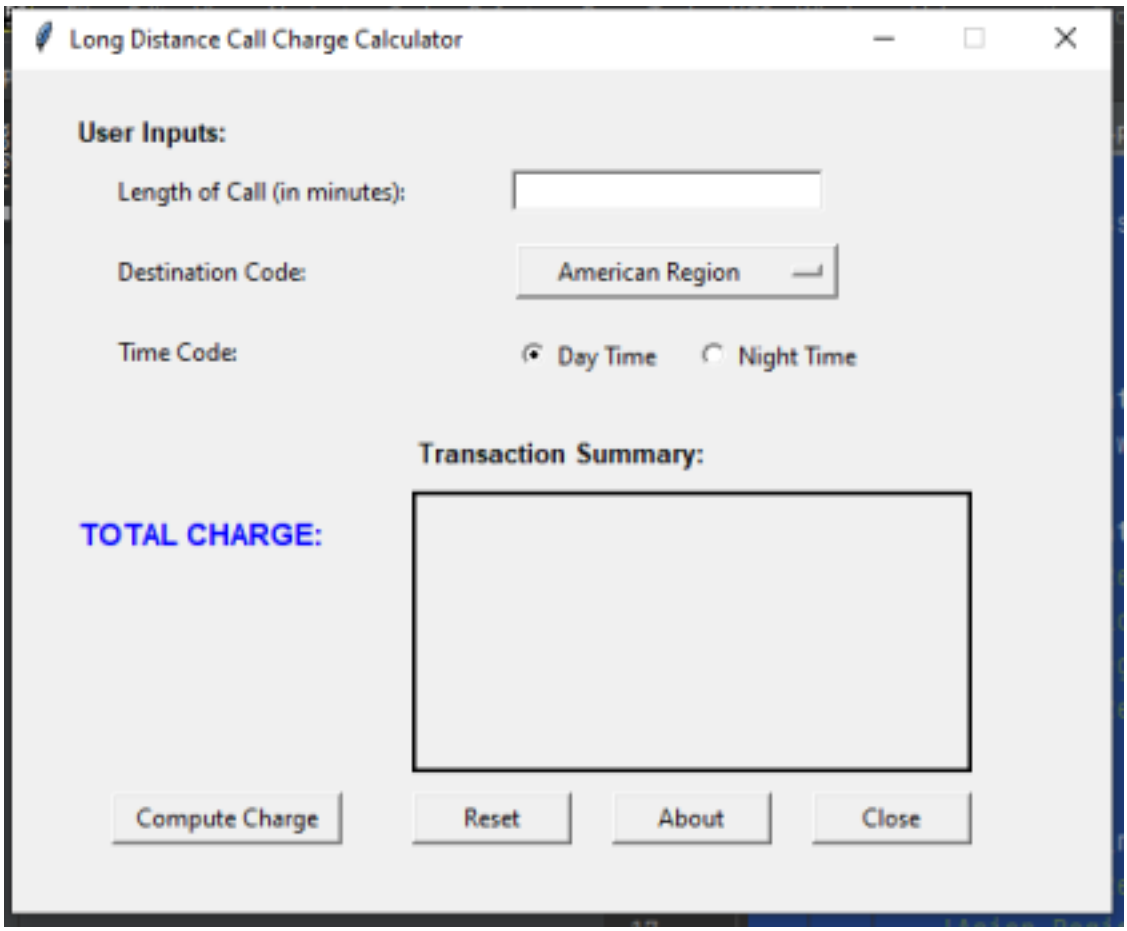
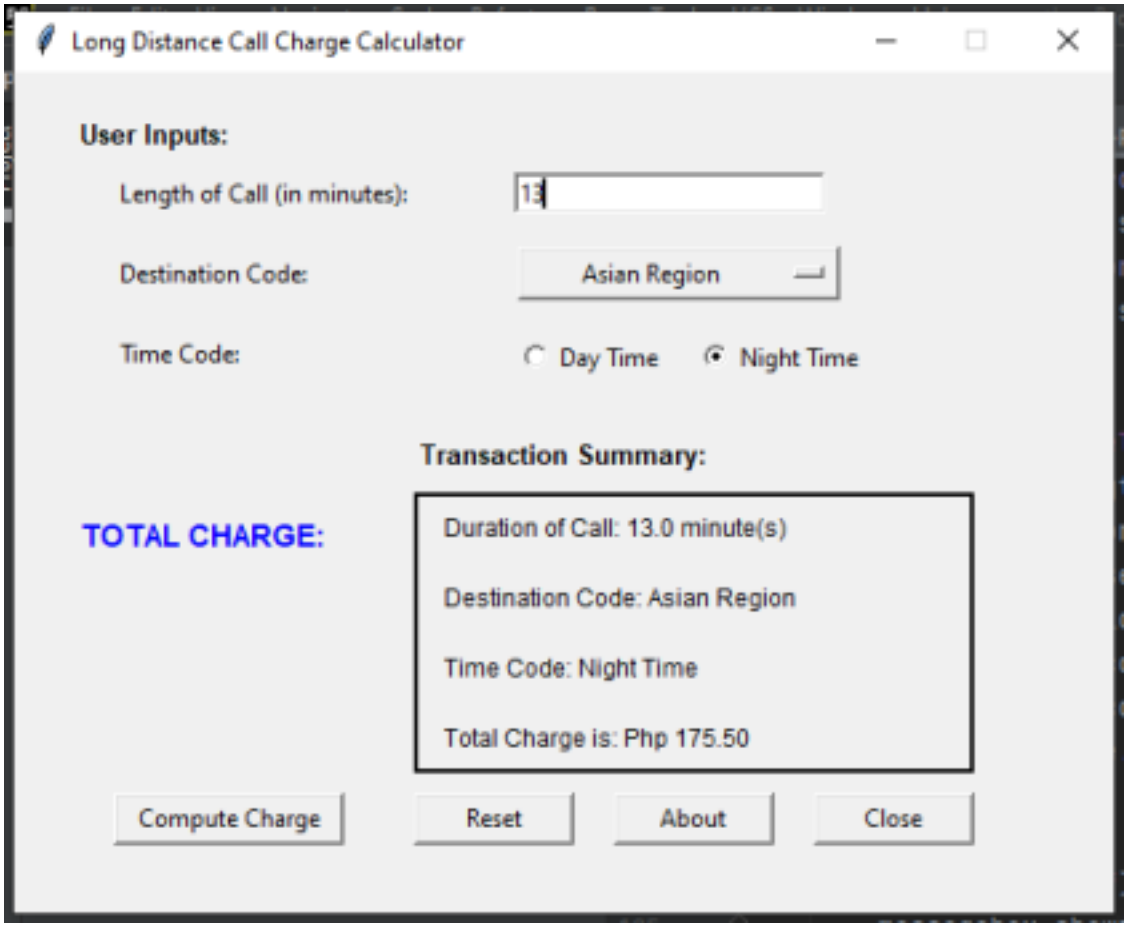
**Coronel, Yshian M. 12/06/2025 C204 700P**

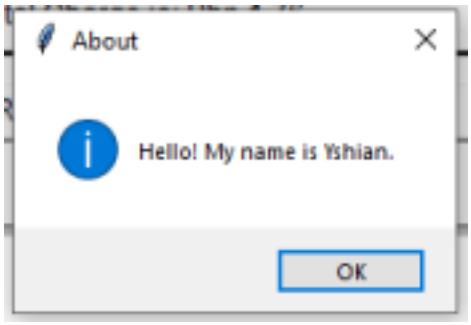
# Finals Lab Task 4. Python GUI using TKINTER

**UI Menu**




**Sample Output**




**python_gui_using_tinker.py (Source Code)**

```
from tkinter import *
from tkinter import messagebox


class CallChargeCalculator:
 def __init__(self, win):
 self.daytime_rates = {
 'American Region': (50, 3),
```

```
 'Asian Region': (30, 2),
 'African Region': (40, 3),
 'European Region': (35, 2)
 }

 self.nighttime_rates = {
 'American Region': (45, 3),
 'Asian Region': (27, 2),
 'African Region': (36, 3),
 'European Region': (30, 2)
 }

 self.lbl_header = Label(win, text='User Inputs:', font=('Arial', 10, 'bold'))
self.lbl_header.place(x=30, y=20)

 self.lbl_length = Label(win, text='Length of Call (in minutes):')
self.lbl_length.place(x=50, y=50)
 self.entry_length = Entry(win, bd=2, width=25)
 self.entry_length.place(x=250, y=50)

 self.lbl_destination = Label(win, text='Destination Code:')
self.lbl_destination.place(x=50, y=90)

 self.destination_var = StringVar()
 self.destination_options = ['American Region', 'Asian Region', 'African Region',
 'European Region']
 self.destination_var.set(self.destination_options[0])

 self.combo_destination = OptionMenu(win, self.destination_var,
*self.destination_options)
 self.combo_destination.config(width=20)
 self.combo_destination.place(x=250, y=85)

 self.lbl_timecode = Label(win, text='Time Code:')
 self.lbl_timecode.place(x=50, y=130)
 self.time_var = StringVar()
 self.time_var.set('Day Time')

 self.radio_day = Radiobutton(win, text='Day Time', variable=self.time_var,
value='Day Time')
 self.radio_day.place(x=250, y=130)

 self.radio_night = Radiobutton(win, text='Night Time', variable=self.time_var,
value='Night Time')
 self.radio_night.place(x=340, y=130)
```

```
 self.lbl_summary = Label(win, text='Transaction Summary:', font=('Arial', 10,
 'bold'))
 self.lbl_summary.place(x=200, y=180)

 self.lbl_total = Label(win, text='TOTAL CHARGE:', font=('Arial', 11, 'bold'),
fg='blue')
 self.lbl_total.place(x=30, y=220)

 # Summary Display Frame
 self.frame_summary = Frame(win, bd=2, relief='solid', width=280, height=140)
self.frame_summary.place(x=200, y=210)
 self.frame_summary.pack_propagate(False)

 self.lbl_duration = Label(self.frame_summary, text='', anchor='w',
justify='left', font=('Arial', 9))
 self.lbl_duration.place(x=10, y=5)

 self.lbl_dest = Label(self.frame_summary, text='', anchor='w', justify='left',
font=('Arial', 9))
 self.lbl_dest.place(x=10, y=40)

 self.lbl_time = Label(self.frame_summary, text='', anchor='w', justify='left',
font=('Arial', 9))
 self.lbl_time.place(x=10, y=75)

 self.lbl_charge = Label(self.frame_summary, text='', anchor='w', justify='left',
font=('Arial', 9))
 self.lbl_charge.place(x=10, y=110)

 self.btn_compute = Button(win, text='Compute Charge',
command=self.compute_charge, width=15)
 self.btn_compute.place(x=50, y=360)

 self.btn_reset = Button(win, text='Reset', command=self.reset_fields, width=10)
self.btn_reset.place(x=200, y=360)
 self.btn_about = Button(win, text='About', command=self.show_about, width=10)
self.btn_about.place(x=300, y=360)

 self.btn_close = Button(win, text='Close', command=win.quit, width=10)
self.btn_close.place(x=400, y=360)

 def compute_charge(self):
 try:
 length = float(self.entry_length.get())
```

```
 if length <= 0:
 messagebox.showerror('Invalid Input', 'Length of call must be greater  than 0')
 return

 destination = self.destination_var.get()
 time_code = self.time_var.get()

 if time_code == 'Day Time':
 rate, interval = self.daytime_rates[destination]
 else:
 rate, interval = self.nighttime_rates[destination]

 total_charge = (length / interval) * rate

 self.lbl_duration.config(text=f"Duration of Call: {length} minute(s)")
self.lbl_dest.config(text=f"Destination Code: {destination}")
self.lbl_time.config(text=f"Time Code: {time_code}")
 self.lbl_charge.config(text=f"Total Charge is: Php {total_charge:.2f}")

 except ValueError:
 messagebox.showerror('Invalid Input', 'Please enter a valid numeric value for  length of
call')
 except Exception as e:
 messagebox.showerror('Error', f'An error occurred: {str(e)}')

 def reset_fields(self):
 self.entry_length.delete(0, END)
 self.destination_var.set(self.destination_options[0])
 self.time_var.set('Day Time')
 self.lbl_duration.config(text='')
 self.lbl_dest.config(text='')
 self.lbl_time.config(text='')
 self.lbl_charge.config(text='')
 def show_about(self):
 messagebox.showinfo('About', "Hello I'm your Name")


if __name__ == '__main__':
 window = Tk()
 calculator = CallChargeCalculator(window)
window.title('Long Distance Call Charge Calculator')
window.geometry("550x420+10+10")
 window.resizable(False, False)
 window.mainloop()
```