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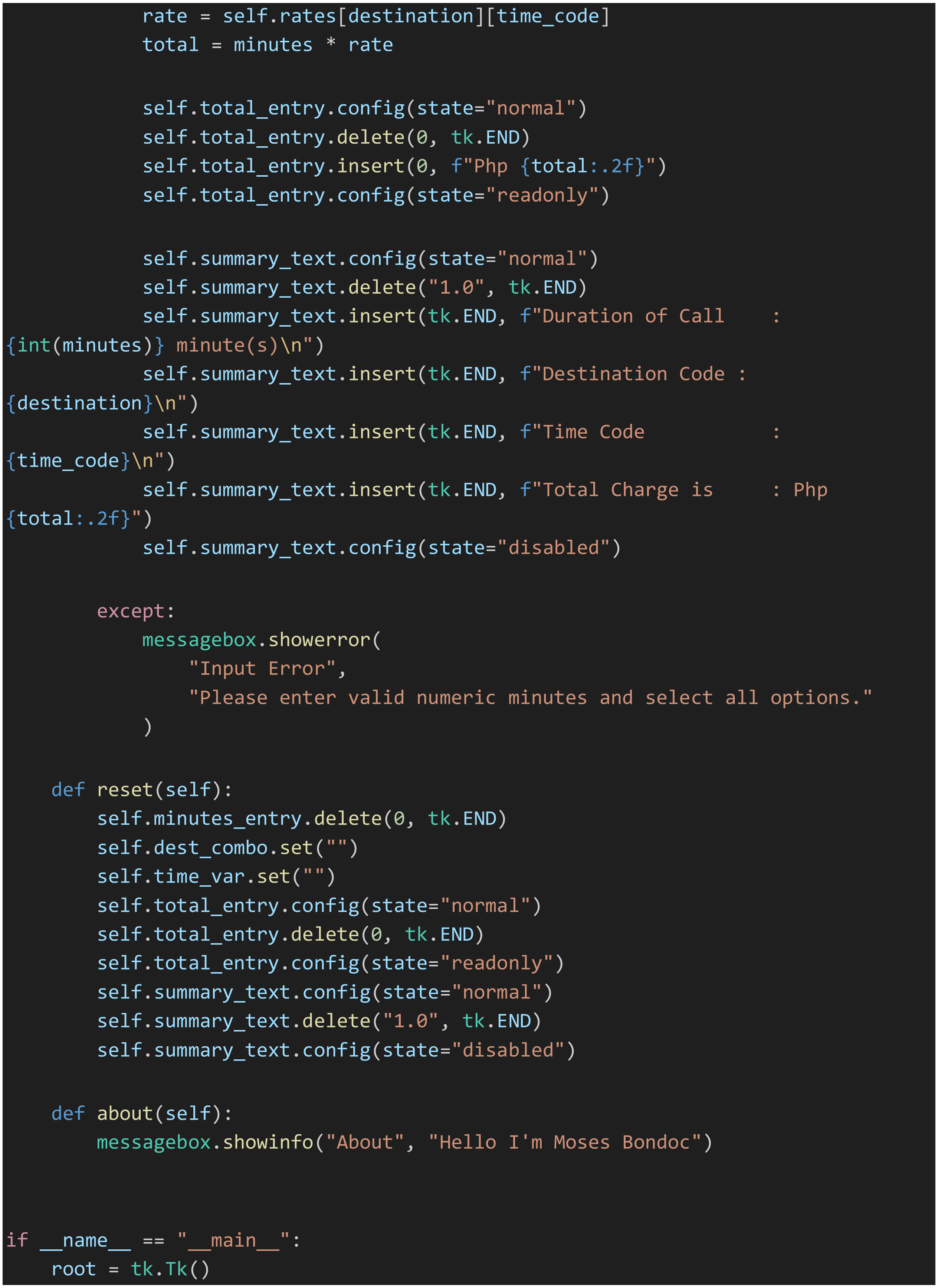
7OOP

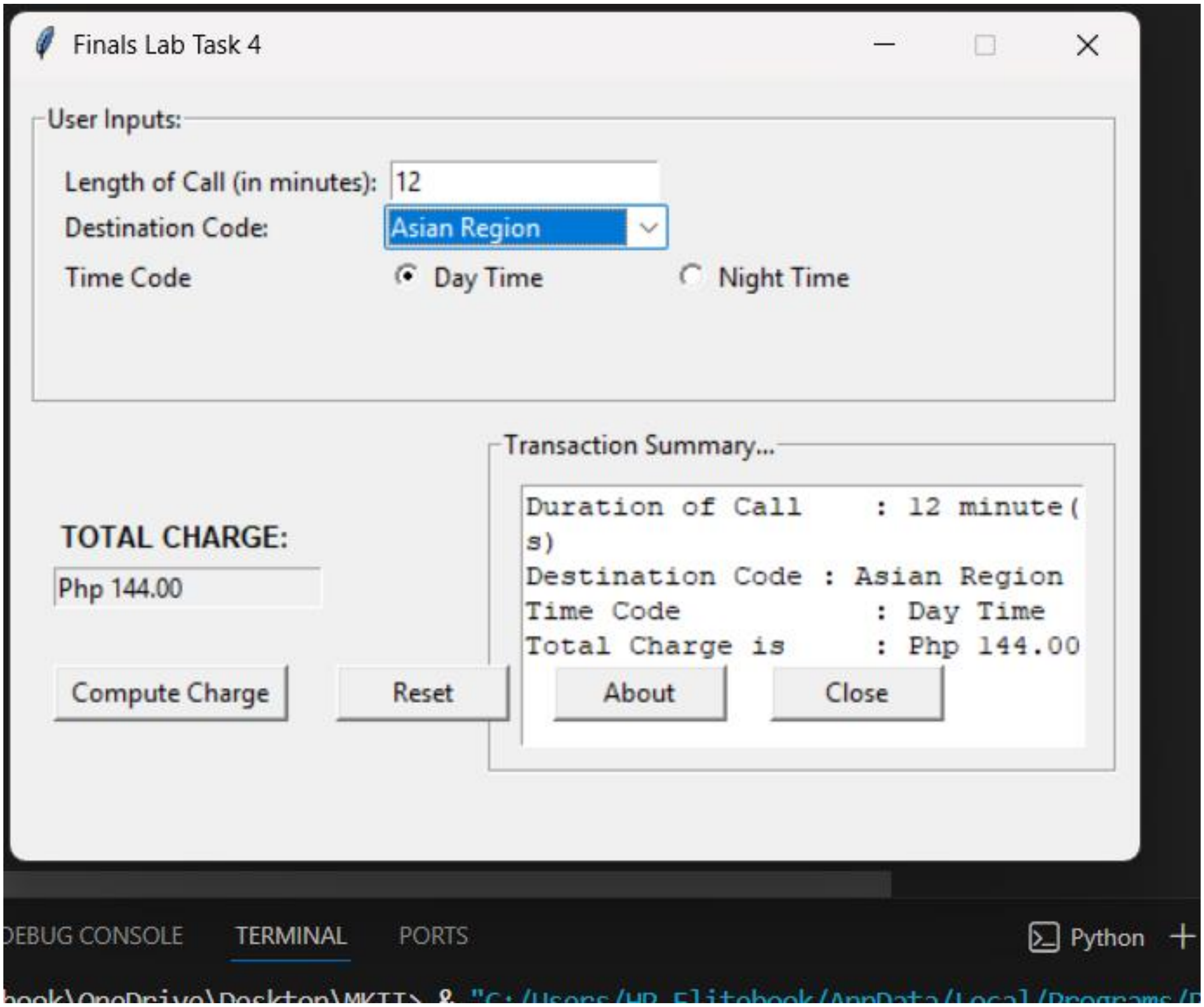
Code:

```
import tkinter as tk
from tkinter import ttk, messagebox


class CallBillingSystem:
    def __init__(self, root):
        self.root = root
        self.root.title("Finals Lab Task 4")
        self.root.geometry("520x360")
        self.root.resizable(False, False)

        self.rates = {
            "Asian Region": {"Day Time": 12, "Night Time": 9},
            "US Region": {"Day Time": 20, "Night Time": 15},
            "Europe Region": {"Day Time": 25, "Night Time": 18},
            "Middle East": {"Day Time": 30, "Night Time": 22},
        }

        self.create_widgets()

    def create_widgets(self):
        user_frame = tk.LabelFrame(self.root, text="User Inputs:", padx=10,
pady=10)
        user_frame.place(x=10, y=10, width=500, height=140)

        tk.Label(user_frame, text="Length of Call (in minutes):").grid(row=0,
column=0, sticky="w")
        self.minutes_entry = tk.Entry(user_frame, width=20)
        self.minutes_entry.grid(row=0, column=1)

        tk.Label(user_frame, text="Destination Code:").grid(row=1, column=0,
sticky="w")
        self.dest_combo = ttk.Combobox(
            user_frame,
            values=list(self.rates.keys()),
            state="readonly",
            width=18
        )
        self.dest_combo.grid(row=1, column=1)

        tk.Label(user_frame, text="Time Code").grid(row=2, column=0, sticky="w")
        self.time_var = tk.StringVar()

        tk.Radiobutton(user_frame, text="Day Time", variable=self.time_var,
value="Day Time").grid(row=2, column=1, sticky="w")
        tk.Radiobutton(user_frame, text="Night Time", variable=self.time_var,
value="Night Time").grid(row=2, column=2, sticky="w")

        summary_frame = tk.LabelFrame(self.root, text="Transaction Summary...",
padx=10, pady=10)
        summary_frame.place(x=220, y=160, width=290, height=160)

        self.summary_text = tk.Text(summary_frame, width=32, height=8,
state="disabled")
        self.summary_text.pack()



        tk.Label(self.root, text="TOTAL CHARGE:", font=("Arial", 10,
"bold")).place(x=20, y=200)
        self.total_entry = tk.Entry(self.root, width=20, state="readonly")
        self.total_entry.place(x=20, y=225)

        tk.Button(self.root, text="Compute Charge", width=14,
command=self.compute).place(x=20, y=270)
        tk.Button(self.root, text="Reset", width=10,
command=self.reset).place(x=150, y=270)
        tk.Button(self.root, text="About", width=10,
command=self.about).place(x=250, y=270)
        tk.Button(self.root, text="Close", width=10,
command=self.root.destroy).place(x=350, y=270)

    def compute(self):
        try:
            minutes = float(self.minutes_entry.get())
            destination = self.dest_combo.get()
            time_code = self.time_var.get()

            if minutes <= 0 or destination == "" or time_code == "":
                raise ValueError
```



```
            rate = self.rates[destination][time_code]
            total = minutes * rate

            self.total_entry.config(state="normal")
            self.total_entry.delete(0, tk.END)
            self.total_entry.insert(0, f"Php {total:.2f}")
            self.total_entry.config(state="readonly")

            self.summary_text.config(state="normal")
            self.summary_text.delete("1.0", tk.END)
            self.summary_text.insert(tk.END, f"Duration of Call    :
{int(minutes)} minute(s)\n")
            self.summary_text.insert(tk.END, f"Destination Code :
{destination}\n")
            self.summary_text.insert(tk.END, f"Time Code           :
{time_code}\n")
            self.summary_text.insert(tk.END, f"Total Charge is     : Php
{total:.2f}")
            self.summary_text.config(state="disabled")

        except:
            messagebox.showerror(
                "Input Error",
                "Please enter valid numeric minutes and select all options."
            )

    def reset(self):
        self.minutes_entry.delete(0, tk.END)
        self.dest_combo.set("")
        self.time_var.set("")
        self.total_entry.config(state="normal")
        self.total_entry.delete(0, tk.END)
        self.total_entry.config(state="readonly")
        self.summary_text.config(state="normal")
        self.summary_text.delete("1.0", tk.END)
        self.summary_text.config(state="disabled")

    def about(self):
        messagebox.showinfo("About", "Hello I'm Moses Bondoc")


if __name__ == "__main__":
    root = tk.Tk()
    app = CallBillingSystem(root)
    root.mainloop()
```

Output:



Finals Lab Task 4

User Inputs:

Length of Call (in minutes): 12

Destination Code: Asian Region

Time Code ● Day Time ○ Night Time

TOTAL CHARGE:

Php 144.00

Transaction Summary...

```
Duration of Call     : 12 minute(
s)
Destination Code : Asian Region
Time Code            : Day Time
Total Charge is      : Php 144.00
```

```
book\OneDrive\Desktop\MKII> & "C:/Users/HP Elitebook/AppData/Local/Programs/P
```