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BSCS – C204

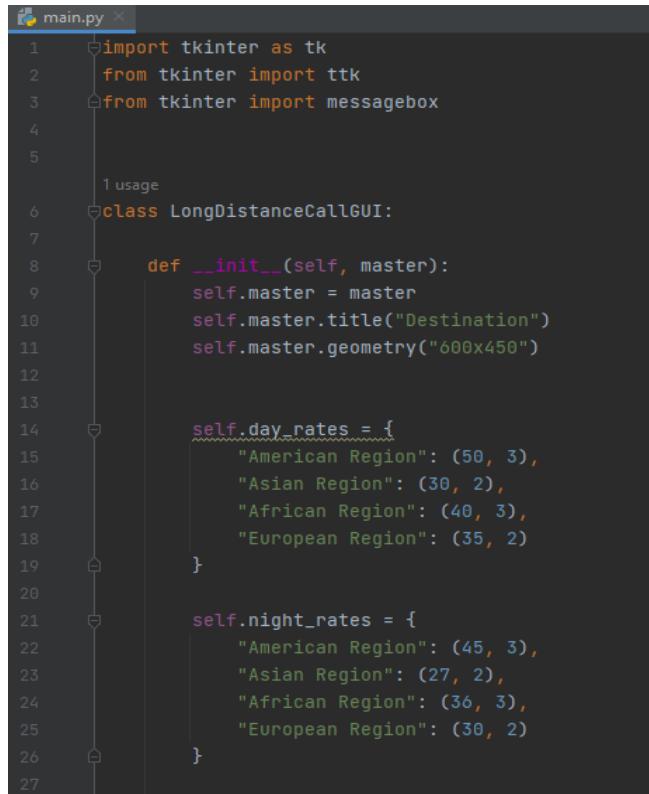**CODE:**

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


class LongDistanceCallGUI:

    def __init__(self, master):
        self.master = master
        self.master.title("Destination")
        self.master.geometry("600x450")


        self.day_rates = {
            "American Region": (50, 3),
            "Asian Region": (30, 2),
            "African Region": (40, 3),
            "European Region": (35, 2)
        }

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

```python
        self.build_interface()

    def build_interface(self):

        frame = tk.LabelFrame(self.master, text="User Inputs:", padx=10, pady=10)
        frame.pack(fill="x", padx=15, pady=10)


        tk.Label(frame, text="Length of Call (in minutes):").grid(row=0, column=0, sticky="w")
        self.txt_minutes = tk.Entry(frame, width=20)
        self.txt_minutes.grid(row=0, column=1, pady=5)


        tk.Label(frame, text="Destination Code:").grid(row=1, column=0, sticky="w")
        self.cbo_dest = ttk.Combobox(frame, width=18, state="readonly")
        self.cbo_dest['values'] = list(self.day_rates.keys())
        self.cbo_dest.grid(row=1, column=1)
        self.cbo_dest.current(0)


        tk.Label(frame, text="Time Code:").grid(row=2, column=0, sticky="w")

        self.time_var = tk.StringVar()
        self.time_var.set("Day")  # default

        tk.Radiobutton(frame, text="Day Time", variable=self.time_var, value="Day").grid(row=2, column=1, sticky="w")
        tk.Radiobutton(frame, text="Night Time", variable=self.time_var, value="Night").grid(row=2, column=1, padx=100)

        out_frame = tk.LabelFrame(self.master, text="Transaction Summary...", padx=10, pady=10)
        out_frame.pack(fill="both", padx=15, pady=10)
```

```python
            self.txt_output = tk.Text(out_frame, height=8, width=70)
            self.txt_output.pack()

            btn_frame = tk.Frame(self.master)
            btn_frame.pack(pady=10)

            tk.Button(btn_frame, text="Compute Charge", width=15, command=self.compute_charge).grid(row=0, column=0, padx=5)
            tk.Button(btn_frame, text="Reset", width=10, command=self.reset).grid(row=0, column=1, padx=5)
            tk.Button(btn_frame, text="About", width=10, command=self.about).grid(row=0, column=2, padx=5)
            tk.Button(btn_frame, text="Close", width=10, command=self.master.destroy).grid(row=0, column=3, padx=5)

    def compute_charge(self):
        try:
            minutes = float(self.txt_minutes.get())
            if minutes <= 0:
                raise ValueError
        except:
            messagebox.showerror( title: "Input Error",  message: "Please enter a valid numeric value for minutes.")
            return

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

        if time_code == "Day":
            rate, unit = self.day_rates[destination]
        else:
            rate, unit = self.night_rates[destination]


        total_charge = (minutes / unit) * rate

        self.txt_output.delete( index1: "1.0", tk.END)
        self.txt_output.insert(tk.END,  chars: f"Duration of Call:\t{minutes} minute(s)\n")
        self.txt_output.insert(tk.END,  chars: f"Destination Code:\t{destination}\n")
        self.txt_output.insert(tk.END,  chars: f"Time Code:\t{time_code} Time\n")
        self.txt_output.insert(tk.END,  chars: f"Total Charge is:\tPhp {round(total_charge, 2)}")

    def reset(self):
        self.txt_minutes.delete( first: 0, tk.END)
        self.cbo_dest.current(0)
        self.time_var.set("Day")
        self.txt_output.delete( index1: "1.0", tk.END)

    def about(self):
        messagebox.showinfo( title: "About",  message: "Hello! I'm your Name")


root = tk.Tk()
app = LongDistanceCallGUI(root)
root.mainloop()
```

SAMPLE OUTPUT: