7/20/24, 8:16 PM clockpy.py

E:\clockpy.py

```
import tkinter as tk
 2
   from tkinter import messagebox
   from datetime import datetime, time, timedelta
 3
    import winsound # for sound notifications (Windows)
 4
 5
6
   class AlarmClockApp:
7
        def __init__(self, master):
            self.master = master
8
9
            self.master.title("Python Alarm Clock")
            self.master.geometry("400x300")
10
11
12
            self.alarm time = None
13
            self.alarm active = False
14
            # Time label
15
            self.time label = tk.Label(master, text="", font=("Helvetica", 48))
16
17
            self.time_label.pack(pady=20)
18
19
            # Entry for setting alarm time
20
            self.entry_label = tk.Label(master, text="Set Alarm Time (HH:MM):")
21
            self.entry_label.pack()
22
23
            self.entry = tk.Entry(master, font=("Helvetica", 24))
            self.entry.pack(pady=10)
24
25
            # Set alarm button
26
            self.set_alarm_button = tk.Button(master, text="Set Alarm", command=self.set_alarm)
27
28
            self.set_alarm_button.pack(pady=10)
29
30
            # Stop alarm button
31
            self.stop_alarm_button = tk.Button(master, text="Stop Alarm", command=self.stop_alarm,
    state=tk.DISABLED)
32
            self.stop_alarm_button.pack(pady=10)
33
            # Update clock display every second
34
35
            self.update clock()
36
37
        def update_clock(self):
            current_time = datetime.now().strftime("%H:%M:%S")
38
39
            self.time label.config(text=current time)
40
            self.check alarm()
41
42
            self.master.after(1000, self.update clock) # Schedule the update clock function to run
    after 1 second
43
44
        def set_alarm(self):
45
            alarm time str = self.entry.get().strip()
46
            try:
```

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