

+ New chat

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List IP Interface Brief

New chat

New chat

Symmetric vs Asymmetric Enc

SNMPwalk command explanati

New chat

Clear conversations

Dark mode

OpenAI Discord

Updates & FAQ

Log out

Can you write me an application to set alarms in window?

Criteria:

- Display current time,
- There section to add new alarm to be set,
- Can adjust the alarm volume to be set for each of the alarm.

Sure, here is a sample application that sets alarms in Windows using the Python programming language:

```
import tkinter as tk
from tkinter import messagebox
import datetime
import winsound

class AlarmApp:
    def __init__(self):
        self.root = tk.Tk()
        self.root.title("Alarm App")

        # Current time label
        self.time_label = tk.Label(self.root, font=("Arial", 20))
        self.time_label.pack()

        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:", font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

        self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_time_entry.grid(row=0, column=1)

        self.alarm_volume_label = tk.Label(self.alarm_frame, text="Alarm Volume:", font=("Arial", 16))
        self.alarm_volume_label.grid(row=1, column=0)

        self.alarm_volume_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_volume_entry.grid(row=1, column=1)

        self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm", font=("Arial", 16), command=self.set_alarm)
        self.set_alarm_button.grid(row=2, column=1)

        self.update_time()
        self.root.mainloop()

    def update_time(self):
```

```
        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:", font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

        self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_time_entry.grid(row=0, column=1)

        self.alarm_volume_label = tk.Label(self.alarm_frame, text="Alarm Volume:", font=("Arial", 16))
        self.alarm_volume_label.grid(row=1, column=0)

        self.alarm_volume_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_volume_entry.grid(row=1, column=1)

        self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm", font=("Arial", 16), command=self.set_alarm)
        self.set_alarm_button.grid(row=2, column=1)

        self.update_time()
        self.root.mainloop()

    def update_time(self):
```

```
def set_alarm(self):
    alarm_time = self.alarm_time_entry.get()
    alarm_volume = self.alarm_volume_entry.get()
    current_time = datetime.datetime.now().strftime("%H:%M:%S")
    if alarm_time == current_time:
        messagebox.showinfo("Alarm", "Time to wake up!")
        winsound.Beep(int(alarm_volume), 1000)
    else:
        self.root.after(1000, self.set_alarm)

    if __name__ == "__main__":
        alarm_app = AlarmApp()
```

This is a basic application that uses the Tkinter library to create a GUI with a label that displays the current time, a section for setting an alarm, and an option to adjust the alarm volume. The alarm will sound when the current time matches the time entered in the alarm section. The alarm volume is set by entering a frequency.

Can remove the criteria no 3?

[Copy code](#)

```

import tkinter as tk
from tkinter import messagebox
import datetime
import winsound

class AlarmApp:
    def __init__(self):
        self.root = tk.Tk()
        self.root.title("Alarm App")

        # Current time label
        self.time_label = tk.Label(self.root, font=("Arial", 20))
        self.time_label.pack()

        # Alarm section
        self.alarm_frame = tk.Frame(self.root)
        self.alarm_frame.pack()

        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:", font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

```



```

        self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm", font=("Arial", 16), command=self.set_alarm)
        self.set_alarm_button.grid(row=1, column=0)

        self.update_time()
        self.root.mainloop()

    def update_time(self):
        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        self.time_label.config(text=current_time)
        self.root.after(1000, self.update_time)

    def set_alarm(self):
        alarm_time = self.alarm_time_entry.get()
        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        if alarm_time == current_time:
            messagebox.showinfo("Alarm", "Time to wake up!")
            winsound.Beep(1000, 1000)
        else:
            self.root.after(1000, self.set_alarm)

    if __name__ == "__main__":
        alarm_app = AlarmApp()

```



Can remove the sound as well, just have the messagebox is enough?



Sure, here's the modified version of the application that sets alarms in Windows with only messagebox:

[Copy code](#)

```

import tkinter as tk
from tkinter import messagebox
import datetime

class AlarmApp:
    def __init__(self):
        self.root = tk.Tk()
        self.root.title("Alarm App")

        # Current time label
        self.time_label = tk.Label(self.root, font=("Arial", 20))
        self.time_label.pack()

```



```
        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:",
```

```

        font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

        self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_time_entry.grid(row=0, column=1)

        self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm",
        font=("Arial", 16), command=self.set_alarm)
        self.set_alarm_button.grid(row=1, column=1)

        self.update_time()
        self.root.mainloop()

    def update_time(self):
        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        self.time_label.config(text=current_time)
        self.root.after(1000, self.update_time)

    def set_alarm(self):
        alarm_time = self.alarm_time_entry.get()
        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        if alarm_time == current_time:

```

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```

if __name__ == "__main__":
    alarm_app = AlarmApp()

```

In this version, the sound feature is removed and only the messagebox will be displayed once the alarm time matches the current time.



Can make the pop up messagebox window to be always on top?



Yes, you can make the messagebox window always on top by using the `attributes` parameter of the `messagebox.showinfo()` function. The `attributes` parameter is used to specify the window style attributes such as `topmost`, `toolwindow`, `alpha`, etc.



Here's an example of how to make the messagebox window always on top:

```

import tkinter as tk
from tkinter import messagebox
import datetime

```

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```

self.root = tk.Tk()
self.root.title("Alarm App")

# Current time label
self.time_label = tk.Label(self.root, font=("Arial", 20))
self.time_label.pack()

# Alarm section
self.alarm_frame = tk.Frame(self.root)
self.alarm_frame.pack()

self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:",
font=("Arial", 16))
self.alarm_time_label.grid(row=0, column=0)

self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
self.alarm_time_entry.grid(row=0, column=1)

self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm",
font=("Arial", 16), command=self.set_alarm)
self.set_alarm_button.grid(row=1, column=1)

self.update_time()
self.root.mainloop()

self.root.after(1000, self.update_time)

def set_alarm(self):
    alarm_time = self.alarm_time_entry.get()

```

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```

    self.root.after(1000, self.update_time)

    def set_alarm(self):
        alarm_time = self.alarm_time_entry.get()

```

```

        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        if alarm_time == current_time:
            messagebox.showinfo("Alarm", "Time to wake up!", parent=self.root,
                                attributes='topmost')
        else:
            self.root.after(1000, self.set_alarm)

    if __name__ == "__main__":
        alarm_app = AlarmApp()

```

In this version, the message box window is set as always on top by passing the `attributes='topmost'` in messagebox.showinfo function.



C:\Users\t84170531\Desktop\Tools\Breathing exercise>python SetAlarmV2.py  
Exception in Tkinter callback  
Traceback (most recent call last):

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```

line /49, in callit
    func(*args)
File "SetAlarmV2.py", line 39, in set_alarm
    messagebox.showinfo("Alarm", "Time to wake up!", parent=self.root, attributes='topmost')
File
"C:\Users\t84170531\AppData\Local\Programs\Python\Python37\lib\tkinter\messagebox.py",
line 83, in showinfo
    return _show(title, message, INFO, OK, **options)
File
"C:\Users\t84170531\AppData\Local\Programs\Python\Python37\lib\tkinter\messagebox.py",
line 72, in _show
    res = Message(**options).show()
File
"C:\Users\t84170531\AppData\Local\Programs\Python\Python37\lib\tkinter\commondialog.py",
line 43, in show
    s = w.tk.call(self.command, *w._options(self.options))
_tkinter.TclError: bad option "-attributes": must be -default, -detail, -icon, -message, -parent, -
title, or -type

```



I apologize, the `attributes` parameter is not a valid option for the `messagebox.showinfo()` function. To set the messagebox window as always on top, you can use the `tk.Toplevel()` function to create the messagebox window, and then set the

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```

import tkinter as tk
import datetime

class AlarmApp:
    def __init__(self):
        self.root = tk.Tk()
        self.root.title("Alarm App")

        # Current time label
        self.time_label = tk.Label(self.root, font=("Arial", 20))
        self.time_label.pack()

        # Alarm section
        self.alarm_frame = tk.Frame(self.root)
        self.alarm_frame.pack()

        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:",
                                        font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

        self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_time_entry.grid(row=0, column=1)

```

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```

        self.update_time()
        self.root.mainloop()

    def update_time(self):
        current_time = datetime.datetime.now().strftime("%H:%M:%S")
        self.time_label.config(text=current_time)
        self.root.after(1000, self.update_time)

```

```

set_alarm(self):
    alarm_time = self.alarm_time_entry.get()
    current_time = datetime.datetime.now().strftime("%H:%M:%S")
    if alarm_time == current_time:
        top = tk.Toplevel(self.root)
        top.wm_attributes("-topmost", 1)
        tk.Label(top, text="Time to wake up!").pack()
        tk.Button(top, text="OK", command=top.destroy).pack()
    else:
        self.root.after(1000, self.set_alarm)

if __name__ == "__main__":
    alarm_app = AlarmApp()

```

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the OK button.



Can make the pop up message window to be on the center?



Yes, you can center the messagebox window by using the `geometry()` method of the `Toplevel()` widget. This method takes a string argument in the format `"xheight+xoffset+yoffset>"`, where `width` and `height` are the dimensions of the window in pixels, and `xoffset` and `yoffset` are the coordinates of the top-left corner of the window relative to the screen. To center the window, you can set the `xoffset` and `yoffset` to be half of the difference between the screen size and the window size.



Here's an example of how to center the messagebox window:

```

import tkinter as tk
import datetime

class AlarmApp:
    def __init__(self):

```

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```

        self.time_label = tk.Label(self.root, font=("Arial", 20))
        self.time_label.pack()

        # Alarm section
        self.alarm_frame = tk.Frame(self.root)
        self.alarm_frame.pack()

        self.alarm_time_label = tk.Label(self.alarm_frame, text="Alarm Time:",
        font=("Arial", 16))
        self.alarm_time_label.grid(row=0, column=0)

        self.alarm_time_entry = tk.Entry(self.alarm_frame, font=("Arial", 16))
        self.alarm_time_entry.grid(row=0, column=1)

        self.set_alarm_button = tk.Button(self.alarm_frame, text="Set Alarm",
        font=("Arial", 16), command=self.set_alarm)
        self.set_alarm_button.grid(row=1, column=1)

        self.update_time()
        self.root.mainloop()

    def update_time(self):
        current_time = datetime.datetime.now().strftime("%H:%M:%S")

```

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```

alarm_time = self.alarm_time_entry.get()
current_time = datetime.datetime.now().strftime("%H:%M:%S")
if alarm_time == current_time:
    top = tk.Toplevel(self.root)
    top.wm_attributes("-topmost", 1)
    tk.Label(top, text="Time to wake up!").pack()
    tk.Button(top, text="OK", command=top.destroy).pack()
    width = top.winfo_width()
    height = top.winfo_height()
    x = (top.winfo_screenwidth() // 2) - (width // 2)
    y = (top.winfo_screenheight() // 2) - (height // 2)
    top.geometry(f"{width}x{height}+{x}+{y}")

```

```
x = (top.winfo_screenwidth() // 2) - (width // 2)
y = (top.winfo_screenheight() // 2) - (height // 2)
top.geometry(f"{width}x{height}+{x}+{y}")
else:
```



Can complete the coding for def set\_alarm(self):?



Yes, here is the complete code for the `set\_alarm()` function



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```
if alarm_time == current_time:
    top = tk.Toplevel(self.root)
    top.wm_attributes("-topmost", 1)
    tk.Label(top, text="Time to wake up!).pack()
    tk.Button(top, text="OK", command=top.destroy).pack()
    width = top.winfo_width()
    height = top.winfo_height()
    x = (top.winfo_screenwidth() // 2) - (width // 2)
    y = (top.winfo_screenheight() // 2) - (height // 2)
    top.geometry(f"{width}x{height}+{x}+{y}")
else:
    self.root.after(1000, self.set_alarm)
```

This version of the function creates a new window using `Toplevel()` and sets it as always on top using `wm\_attributes()`. Then it creates a label and button widgets to display the message and OK button respectively. The `winfo\_width()`, `winfo\_height()`, `winfo\_screenwidth()`, and `winfo\_screenheight()` functions are used to get the dimensions of the window and the screen, respectively. Then the `x` and `y` variables are calculated as the center of the screen by taking half of the difference between the screen size and the window size. Finally, the `geometry()` method is used to set the position of the

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You can use the `config()` method of the `Toplevel()` widget to change the size of the messagebox window. The `config()` method takes one or more options as arguments, and the option `geometry` can be used to set the size of the window.



Here's an example of how to set the size of the messagebox window to 300x200 pixels:

```
def set_alarm(self):
    alarm_time = self.alarm_time_entry.get()
    current_time = datetime.datetime.now().strftime("%H:%M:%S")
    if alarm_time == current_time:
        top = tk.Toplevel(self.root)
        top.wm_attributes("-topmost", 1)
        tk.Label(top, text="Time to wake up!).pack()
        tk.Button(top, text="OK", command=top.destroy).pack()
        top.config(geometry='300x200')
        width = top.winfo_width()
        height = top.winfo_height()
        x = (top.winfo_screenwidth() // 2) - (width // 2)
        y = (top.winfo_screenheight() // 2) - (height // 2)
```

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In this version, I added the line `top.config(geometry='300x200')` to change the size of the messagebox window to 300x200 pixels.

Alternatively, you can use the `geometry()` method directly to set the size and position of the window at the same time. Here's an example:

```
def set_alarm(self):
    alarm_time = self.alarm_time_entry.get()
```

Copy code

```
current_time = datetime.datetime.now().strftime("%H:%M:%S")
if alarm_time == current_time:
    top = tk.Toplevel(self.root)
    top.wm_attributes("-topmost", 1)
    tk.Label(top, text="Time to wake up!").pack()
    tk.Button(top, text="OK", command=top.destroy).pack()
    width = 300
    height = 200
    x = (top.winfo_screenwidth() // 2) - (width // 2)
    y = (top.winfo_screenheight() // 2) - (height // 2)
    top.geometry(f"{width}x{height}+{x}+{y}")
else:
    self.root.after(1000, self.set_alarm)
```

In this version, I set the width and height directly to 300 and 200 respectively, and set the position of the window on the screen by passing the calculated `x` and `y` values to the `geometry()` method.

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