

ASSIGNMENT 2
MAHENDRA INSTITUTE OF TECHNOLOGY

Date	10 October2022
Team ID	PNT2022TMID17220
Project Name	Signs with smart connectivity for better road safety
Maximum Marks	2 Marks

defining the function for the alarm clock

def alarm(setAlarmTimer):

 while True:

 time.sleep(1)

 actualTime = dt.datetime.now()

 currentTime = actualTime.strftime("%H : %M : %S")

 currentDate = actualTime.strftime("%d / %m / %Y")

 the_message = "Current Time: " + str(currentTime)

 print(the_message)

 if currentTime == setAlarmTimer:

 ws.PlaySound("sound.wav", ws.SND_ASYNC)

 break

def getAlarmTime():

 alarmSetTime = f"{hour.get()} : {minute.get()} : {second.get()}"

 alarm(alarmSetTime)

from tkinter import *

```
import datetime as dt

import time

import winsound as ws


# defining the function for the alarm clock

def alarm(setAlarmTimer):

    while True:

        time.sleep(1)

        actualTime = dt.datetime.now()

        currentTime = actualTime.strftime("%H : %M : %S")

        currentDate = actualTime.strftime("%d / %m / %Y")

        the_message = "Current Time: " + str(currentTime)

        print(the_message)

        if currentTime == setAlarmTimer:

            ws.PlaySound("sound.wav", ws.SND_ASYNC)

            break


def getAlarmTime():

    alarmSetTime = f"{hour.get()} : {minute.get()} : {second.get()}"

    alarm(alarmSetTime)


# creating the GUI for the application

guiWindow = Tk()

guiWindow.title("The Alarm Clock")

guiWindow.geometry("464x200")
```

```
guiWindow.config(bg = "#87BDD8")
```

```
guiWindow.resizable(width = False, height = False)
```

```
timeFormat = Label(
```

```
    guiWindow,
```

```
    text = "Remember to set time in 24-hour format!",
```

```
    fg = "white",
```

```
    bg = "#36486B",
```

```
    font = ("Arial", 15)
```

```
).place(
```

```
    x = 0,
```

```
    y = 160
```

```
)
```

```
add_time = Label(
```

```
    guiWindow,
```

```
    text = "Hour   Minute   Second",
```

```
    font = 60,
```

```
    fg = "white",
```

```
    bg = "#87BDD8"
```

```
).place(
```

```
    x = 220,
```

```
    y = 10
```

```
)
```

```
setAlarm = Label(  
    guiWindow,  
    text = "Set Time for Alarm: ",  
    fg = "white",  
    bg = "#034F84",  
    relief = "solid",  
    font = ("Helvetica", 13, "bold")  
).place(  
    x = 5,  
    y = 50  
)
```

```
hour = StringVar()  
minute = StringVar()  
second = StringVar()
```

```
hourTime = Entry(  
    guiWindow,  
    textvariable = hour,  
    bg = "#FEFBD8",  
    width = 4,  
    font = (20)  
).place(  
    x = 220,  
    y = 53
```

```
)  
  
minuteTime = Entry(  
    guiWindow,  
    textvariable = minute,  
    bg = "#FEFBD8",  
    width = 4,  
    font = (20)  
).place(  
    x = 297,  
    y = 53  
)  
  
secondTime = Entry(  
    guiWindow,  
    textvariable = second,  
    bg = "#FEFBD8",  
    width = 4,  
    font = (20)  
).place(  
    x = 390,  
    y = 53  
)  
  
submit = Button(  
    guiWindow,  
    text = "Set The Alarm",
```

```
fg = "white",  
bg = "#82B74B",  
width = 15,  
command = getAlarmTime,  
font = (20)  
)place(  
    x = 140,  
    y = 100  
)  
  
guiWindow.mainloop()
```