ASSIGNMENT-2

Date	19 sep 2022
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Team ID	PNT2022TMID46732
Project Name	Industry specific intelligent fire
	management system
Maximum Mark	2

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

```
importing
the
required
modules
            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 = ("Helevetica", 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()