Assignment 2

# Signs with smart connectivity for Better road safety

PROBLEM STATEMENT:

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

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()