V.S.B. ENGINEERING COLLEGE, KARUR Department of Electronics and Communication Engineering

TITLE: Signs with smart connectivity for

betterRoad Safety

DOMAIN NAME: Internet of Things

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Coding:

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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
                           Second",
                 Minute
  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,
```

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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()
```

CIRCUIT DIAGRAM:

