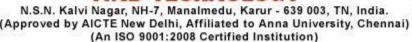


N.S.N. COLLEGE OF ENGINEERING

AND TECHNOLOGY





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IV YEAR / VII SEMESTER (ODD)

BATCH : 2019-2023

ACADEMIC YEAR : 2022-2023

ASSIGNMENT : 1

TEAM ID : PNT2022TMID48761

TITLE OF THE PROJECT : HAZARDOUS AREA MONITORING FOR

INDUSTRIAL PLANT POWERED BY IOT

DOMAIN : INTERNET OF THINGS

TEAM LEAD : S.DINESH

TEAM MEMBER : V.KARTHIK

TEAM MEMBER : A.SIVAKUMAR

TEAM MEMBER : M.ARUNKUMAR

TEAM MEMBER : K.MANOJ

INDUSTRY MENTOR(S) NAME : BHARADWAJ, SANTOSHI, BHARDWAJ

FACULTY MENTOR(S) NAME : G.ANAND

ASSIGNMENT 3:

BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

Code: import time import RPi.GPIO as GPIO GPIO.setmode(GPIO.BOARD) GPIO.setup(11, GPIO.OUT) while True: GPIO.output(11,True) time.sleep(1) GPIO.output(11,False) time.sleep(1) from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15) button = Button(21) lights = TrafficLights(25, 8, 7) while True: button.wait_for_press() light.green.on() sleep(1) lights.amber.on() sleep(1) lights.red.on() sleep(1) lights.off() while True: lights.on() buzzer.off() button.wait_for_press() lights.off() buzzer.on() button.wait_for_release() while True: lights.blink() buzzer.beep()

```
button.wait_for_press()
lights.off()
buzzer.off()
button.wait_for_release()
```