AS-SALAM COLLEGE OF ENGINEERING &TECNOLOGY

THIRUMANGALAKUDI-ADUTHURAI

IOT Assignment: Assignment no.3

Topic:Write a python code for blinking LED and Traffic lights

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CODE:

Blinking Lights:-

import RPi.GPIO as GPIO # Import Raspberry Pi

GPIO library from time import sleep # import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO BOARD) # Use physical pin numbering

GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW) # Set pin 8 to be output pin and set initial value to low(off) While True

#Run forever GPIO.output(8,GPIO.HIGH) # Turn on

Sleep(1) # sleep for 1 second

GPIO.output(8,GPIO.LOW) #Turn off

Sleep(1) # sleep for 1 second

Traffic Light Control:-

```
From
gpiozero
import
Button,
Traffic Lights,
Buzzer      from time import sleep
                Buzzer=Buzzer(15)
                Button=Button(21)
                Lights=Traffic Lights(25,8,7)

While True:
        Button.wait_for_prees()
        Buzzer.on()
        Lights.green.on()
        Sleep(1)
        Lights.amber.on()
        Sleep(1)
        Lights.red.on()
        Sleep(1)
        Lights.off()
        Buzzer.off()
```