

BANNARI AMMAN INSTITUTE OF TECHNOLOGY,
SATHYAMANGALAM

Department of Computer Science and

Engineering

IOT Assignment

Topic : Write python code for blinking LED and Traffic lights

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CODE:-

Traffic Light control:-

```
from
gpiozero
import
Button,
TrafficLights,
Buzzer from time import sleep

    buzzer = Buzzer(15)
    button = Button(21)
    lights = TrafficLights(25, 8,
7)

    while True:

        button.wait_for_press()
        buzzer.on()
        lights.green.on()
```

```
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```

Blinking Led:- 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 an 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