

MAHENDRA INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Smart Farmer –IOT Enabled Smart Farming Application

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TITLE	Smart Farmer –IOT Enabled Smart Farming Application
DOMAIN NAME	INTERNET OF THINGS
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Assignment - 3

Write python code for blinking LED and Traffic lights

CODE:-

Blinking Led:-

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
```

```
from time import sleep # Import the sleep function from the time moduleGPIO.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

Traffic Light control:-

from

 gpiozero

import

 Button,

 TrafficLight

s,

 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()

