ASSIGNMENT – III

DOMAIN: IOT

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming Application

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ASSIGNMENT TITLE:

Write a python code for blinking LED ad Traffic lights for Raspberry pi.

**Blinking LED:**

import RPi.GPIO as GP from time import sleep

GP.setwarnings(False)

GP.setmode(GP.BOARD)

GP.setup(8,GP.OUT,initial=GP.LOW)

while True:                      #infinite loop

    GP.output(8, GPIO.HIGH)        # Turn on

print("The LED is ON")

    sleep(2)                     # Sleep for 2 second

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

print("The LED is OFF")

    sleep(2)                     # Sleep for 2 s



**Traffic Light Controller:**

from gpiozero import LED

from time import sleep

red= LED(17) #pin numbers connected to Led's

aster=(22)

green=(27)

while True:

red.on() #RED light

print("Red light is ON")

for i in range(100,0,-1):

print("Remaining time: ",i)

sleep(1)

red.off()

aster.on() # ASTER light

print("Yellow light is ON")

for i in range(5,0,-1):

print("Remaining time: ",i)

sleep(1)

aster.off()

green.on #GREEN light

print("Green light is ON")

for i in range(30,0,-1):

print("Remaining time: ",i)

sleep(1)

green.off()

