**ASSIGNMENT – III**

**DOMAIN: IOT**

**PROJECT TITLE:** Smart Farmer – IOT Enabled Smart Farming Application

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| Assignment Date | PNT2022TMID43471 |
| Student Name | Harikrishnan |
| Student Roll Number | 720319106010 |
| Maximum Marks | 2 Marks |

**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()

