IOT Based Smart Crop Protection System For Agriculture

NAME : Kandra Bhanu Prasad Reddy

ROLL NO : 711119106301

TEAM ID : PNT2022TMID42671

Python code for blinking led in raspberry pi :

import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

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

while True:

GPIO.output(8, GPIO.HIGH)

sleep(2)

GPIO.output(8, GPIO.LOW)

sleep(2)

Python code for blinking led and traffic lights in raspberry pi

import RPi.GPIO as GPIO

import time import signal

import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

def allLightsOff(signal, frame):

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, False) GPIO.cleanup() sys.exit(0)

signal.signal(signal.SIGINT, allLightsOff)

while True:

# Red

GPIO.output(9, True)

time.sleep(3)

# Red and amber GPIO.output(10, True) time.sleep(1)

# Green

GPIO.output(9, False)

GPIO.output(10, False) GPIO.output(11, True)

time.sleep(5)

# Amber

GPIO.output(11, False) GPIO.output(10, True) time.sleep(2)

# Amber off (red comes on at top of loop)

GPIO.output(10, False)