Smart Farmer - IoT Enabled Smart Farming Application

ASSIGNMENT -3

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Write python code for blinking LED and Traffic lights for Raspberry pi.

Code:

Blinking LED

```python
import RPi.GPIO as GPIO

import time

LED_PIN = 17

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN, GPIO.OUT)

try:

    while True:

        GPIO.output(LED_PIN, GPIO.HIGH)

        time.sleep(1)

        GPIO.output(LED_PIN, GPIO.LOW)

        time.sleep(1)

except KeyboardInterrupt:

    GPIO.cleanup()
```

Traffic Lights:

```python
from gpiozero import Button, TrafficLights, Buzzer

from time import sleep


buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)
```

```python
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```