ASSIGNMENT- 3

PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
TEAM ID	PNT2022TMID44390
NAME	CHARULATHA H
ROLL NO	731119205005
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MAXIMUM MARKS	2 MARKS

QUESTION:

WRITE PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS USING RASPBERRY PI.

1.PYTHON CODE FOR BLINKING LED USING RASPBERRY PI

CODE:

```python
from gpiozero import LED        # importing GPIO pins as LED

from time import sleep         # importing time function as sleep

red = LED(18)                  # red LED is connected to GPIO 18

while True:                    # infinite loop

red.on()                       # red LED is on for 1 second

sleep(1)

red.off()                      # red led is off for 1 second

sleep(1)
```

1.PYTHON CODE FOR TRAFFIC LIGHTS USING RASPBERRY PI

CODE:

```python
from gpiozero import LED          # importing GPIO pins as LED

from time import sleep           # importing time function as sleep

red = LED(23)                    # red LED connected to GPIO 23

yellow = LED(07)                 # yellow LED connected to GPIO 07

green = LED(19)                  # green LED connected to GPIO 19

while True:                      # infine loop

red.on()                         # red LED is on for 5 seconds to make stop

sleep(5)

red.off()

yellow.on()                      # yellow LED is on for 2 seconds to make ready

sleep(2)

yellow .off

green.on()                       #green LED is on for 5 seconds to make go

sleep(5)

green.off()
```