ASSIGNMENT- 3

PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
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DATE	06 OCTOBER 2022
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()
```