

ASSIGNMENT- 3

PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	Smart Farmer-IOT enabled smart farming application
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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:

```
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() sleep(1)              # red LED is on for 1 second

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

2.PYTHON CODE FOR TRAFFIC LIGHTS USING RASPBERRY PI CODE:

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

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

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