ASSIGNMENT- 3

PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	Smart Farmer-IOT enabled smart farming application
TEAM ID	PNT2022TMID44390
NAME	PAVITHRA DEVI V R
ROLL NO	731119205032
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() 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:

```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() 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()
```