

ASSIGNMENT 3:

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PROJECCT TITLE : SmartFarmer - IoT Enabled Smart Farming Application

CODE:

PYTHON CODE FOR BLINKING LED

```
Import RPi.GPIO as GP from time
import sleepGP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial = GP.LOW)
While True:
GP.output(8,GPIO.
HIGH)
Print("The LED is
ON") Sleep(2)
GP.output(8,GPIO.L
OW)
Print("The LED is OFF")
Sleep(2)
```

PYTHON CODE FOR TRAFFIC LIGHT CONTROLLER

```
from gpiozero
import LEDfrom
time import sleep
red = LED(17)
aster = (22)
green = (27)while True: red.on()
print("Red light is ON")
for i in range(100,0,-1):
print("Remaining time: ",i)
sleep(1) red.off() aster.on()
print("Yellow light is ON")
for I IN RANGE(5,0,-1):
```

```
print("Remaining time: ",i)
sleep(1) aster.off()green.on
print("Green light is ON")
for i in range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1) green.off()
```