ASSIGNMENT 3

Date	04 October 2022
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Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

TOPIC: Python code for blinking LED ad Traffic lights for Raspberry pi

BLINKING LED

```
import RPi.GPIO as GP from time

import sleep GP.setwarnings(False)

GP.setmode(GP.BOARD)
 GP.setup(8,GP.OUT,initial=GP.LOW)

while True: #infinite loop

GP.output(8, GPIO.HIGH) # Turn on
print("The LED is ON") sleep(2) # Sleep for 2 second

GP.output(8, GPIO.LOW) # Turn off

 print("The LED is OFF") sleep(2) # Sleep for 2 s
```

TRAFFIC LIGHT

CONTROLLER from

```
gpiozero import LED

from time import sleep

red= LED(17) #pin numbers connected to

Led's  aster=(22)  green=(27)  while True:

red.on() #RED light

print("Red light is

ON")  for i in

range(100,0,-1):

print("Remaining time: ",i)  sleep(1)
red.off()
aster.on() # ASTER

light  print("Yellow
```

```
light is ON")  for i in
range(5,0,-1):
print("Remaining
time: ",i)  sleep(1)
aster.off()
green.on #GREEN light
print("Green light is
ON")  for i in
range(30,0,-1):
print("Remaining time: ",i)  sleep(1)  green.off()
```