ASSIGNMENT 3

Date	04 October 2022
Name	Mannoj Kumar
Roll Number	718020L431
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

TOPIC: BLINKING LED AND TRAFFIC LIGHTS USING PYTHON CODE

CODE

```python
import RPi.GPIO as GPIO import time   try:   def lightTraffic(led1, led2, led3, delay ):
GPIO.output(led1, 1)     time.sleep(delay)

    GPIO.output(led1, 0)    GPIO.output(led2, 1)    time.sleep(delay)

    GPIO.output(led2, 0)    GPIO.output(led3, 1)     time.sleep(delay)

    GPIO.output(led3, 0)    GPIO.setmode(GPIO.BCM)   button = 19

  GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)   ledGreen = 16   ledYellow = 12
ledRed = 23

  GPIO.setup(ledGreen, GPIO.OUT)

  GPIO.setup(ledYellow, GPIO.OUT)   GPIO.setup(ledRed, GPIO.OUT)   while
True:

    input_state = GPIO.input(button)     if input_state == False:
print('Button Pressed')

    lightTraffic(ledGreen, ledYellow, ledRed, 1)     else:

    GPIO.output(ledGreen, 0)

    GPIO.output(ledYellow, 0)
GPIO.output(ledRed, 0) except KeyboardInterrupt:   print "You've exited the program" finally:

  GPIO.cleanup()
```