

## **ASSIGNMENT -3**

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**Question:** - Write a python code for Blinking LED and Traffic lights for Raspberry Pi.

**LED Blinking: -**

**import RPi.GPIO as GPIO**

**import time**

**ledPin=22**

**def setup():**

**GPIO.setmode(GPIO.BOARD)**

**GPIO.setup(ledPin,GPIO.OUT)**

**GPIO.output(ledPin,GPIO.LOW)**

**def loop():**

**While True:**

**Print 'LED on'**

***GPIO.output(ledPin,GPIO.HIGH)***

***Time.sleep(1.0)***

***Print 'LED off'***

***GPIO.output(ledPin,GPIO.LOW)***

***Time.sleep(1.0)***

***def endprogram():***

***GPIO.output(ledPin,GPIO.LOW)***

***GPIO.cleanup()***

***if \_\_name\_\_ == '\_\_main\_\_':***

***setup()***

***try:***

***loop()***

***except KeyboardInterrupt:***

***endprogram()***

**TRAFFIC LIGHT PYTHON CODE:-**

**from gpiozero import LED**

**from time import sleep**

**red=LED(17)**

**yellow=LED(22)**

**sleep(1)**

**yellow.on()**

**sleep(10) green=LED(27)**

**While True:**

**red.on()**

**sleep(15)**

**red.off()**

**yellow.off()**

**sleep(1)**

**green.on()**

**sleep(10)**

**green.off()**

**sleep(1)**