

Assignment -3

Python Program

Assignment Date	30 September 2022
Student Name	Mr. Madhan babu S
Student Roll Number	621319205017
Maximum Marks	2 Marks

Question-1:

Build a python code, For blinking LED and Traffic lights for Raspberry pi.

Program:

```
import sys
import time
import signal
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10,
GPIO.OUT)
GPIO.setup(11,
GPIO.OUT)
def allLightsOff(signal,
frame):
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)
signal.signal(signal.SIGINT,
allLightsOff)
while True:
    # Red
    GPIO.output(9, True)
    time.sleep(3)
    # Red and yellow
    GPIO.output(10, True)
    time.sleep(1)
    # Green
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    # yellow
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)
```

```
# yellow off (red comes  
on at top of loop)  
GPIO.output(10, False)
```