ASSIGNMENT -3 SUBMITTED BY SANGEETHA S BATCH B7 1A3E-IOT

PROGRAM:

1.LED BLINKING IN PYTHON:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
  GPIO.output(8, GPIO.HIGH)
  sleep(1)
  GPIO.output(8, GPIO.LOW)
  sleep(1)
2.TRAFFIC LIGHT IN PYTHON:
import RPi.GPIO as GPIO
import time
import signal
import sys
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:
  GPIO.output(9, True) #red
  time.sleep(3)
  GPIO.output(10, True) # Red and amber
  time.sleep(1)
  GPIO.output(9, False)
                          # Green
  GPIO.output(10, False)
  GPIO.output(11, True)
  time.sleep(5)
  GPIO.output(11, False) # Amber
  GPIO.output(10, True)
time.sleep(2)
  GPIO.output(10, False) # Amber off (red comes on at top of loop)
```