IBM-NALAYATHIRAN

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ASSIGNMENT-3

Python code for blinking LED and Traffic lights for Raspberry pi.

CODE:

```
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)


import RPi.GPIO as GPIO

import time

import signal

Import sys


#Setup

GPIO.setmode(GPIO.BCM)

GPIO.setup(9,GPIO.OUT)
```

```python
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)

#Turn off all lights when user ends demo
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)

#Loop forever
while True:
# Red
GPIO.output(9, True)
    time.sleep(3)
# Red and amber
GPIO.output(10, True)
    time.sleep(1)
# Green
GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
# Amber
GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)
# Amber off (red comes on at top of loop)
 GPIO.output(10, False)
```