

IBM ASSIGNMENT – III

Team ID: PNT2022TMID00080

Description:

In this we are connecting three LED's "Red", "Amber" and "Green." These are controlled by the raspberry pi which will first turn on the red light for 3 seconds then amber along with red for a second then only green light will glow for 5 seconds after this we will turn on the amber alone for 2 seconds after this it will be looped.

Coding:

```
import RPi.GPIO as GPIO
import time
import signal
import sys

GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)    #Red led at pin 9
GPIO.setup(10, GPIO.OUT)   #Amber led at pin 10
GPIO.setup(11, GPIO.OUT)   #Green led at pin 11

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)
```