ASSIGNMENT-3

MAHABARATHI ENGINEERING COLLEGE

NAME: M.SIVA
CLASS: IV-YEAR ECE
SUBJECT: IBM

QUESTION:

Write python code for blinking LED and traffic lights for Raspberry pi.

SOLUTION:

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

# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)

# Turn off all light 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)
```