ASSIGNMENT-3

MAHABARATHI ENGINEERING COLLEGE

NAME: K.NAGAVALLI 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(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)
```

GPIO.output(9,False)