ASSIGNMENT-3

MAHABARATHI ENGINEERING COLLEGE

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CLASS: lV-YEAR CSE

SUBJECT: IBM

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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)