

Karpagam College of Engineering

(Electronics and Communication Engineering)

Name: Vigneshwar R

Roll No: 717819L254

Assignment 3:

Python code for blinking LED and Traffic lights for Raspberry pi

CODE:

1) PYTHON CODE FOR BLINKING LED

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
and set initial value to low
(off)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
```

2) PYTHON CODE FOR TRAFFIC LIGHT

```
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)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
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)
while True:
    GPIO.output(9, True)time.sleep(3)
    GPIO.output(10, True)
    time.sleep(1)
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)
    GPIO.output(10, False)
```