VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment-3

Topic: BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

Name: PRAKASHAM P
Team ID: PNT2022TMID33532
Reg No :922519106111

PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI:

For 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)  while True:

GPIO.output(8,GPIO.HIG
H)        sleep(1)
      GPIO.output(8,GPIO.LOW)
sleep(1)
```

For Traffic Lights:

```
import Rpi.GPIO as GPIO  import  time
import signal  import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
```

```
GPIO.setup(11,GPIO.OUT)

def allLightsOff(signal,framer):
GPIO.output(9,False)
      GPIO.output(10,False)

GPIO.output(11,False)
GPIO.cleanup()         sys.exit(0)
signal.signal(signal.SIGINT,allLightsOff)

while True:
    #Red :

GPIO.o
utput(9
,True)
Time.sl
eep(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)
```