VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment-3

Topic : BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

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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.HIGH)
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.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)
```