

ASSIGNMENT 3

NAME:N.MANJULA.

TEAM ID : PNT2022TMID30034

Question: - Write a python code for Blinking LED and Traffic lights for Raspberry Pi.

LED Blinking: -

```
import RPi.GPIO as GPIO
```

```
import time
```

```
ledPin=22
```

```
def setup():
```

```
    GPIO.setmode(GPIO.BOARD)
```

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

```
    GPIO.output(ledPin,GPIO.LOW)
```

```
def loop():
```

While True:

Print 'LED on'

GPIO.output(ledPin,GPIO.HIGH)

Time.sleep(1.0)

Print 'LED off'

GPIO.output(ledPin,GPIO.LOW)

Time.sleep(1.0)

def endprogram():

GPIO.output(ledPin,GPIO.LOW)

GPIO.cleanup()

NAME: PADMAPRIYA.P

TEAM ID:

PNT2022TMID30034

if __name__ == '__main__':

setup()

```
try:  
loop()  
except KeyboardInterrupt:  
endprogram()
```

TRAFFIC LIGHT PYTHON CODE:-

```
from gpiozero import LED  
from time import sleep  
red=LED(17)  
yellow=LED(22)  
green=LED(27)  
While True:  
red.on()  
sleep(15)  
red.off()  
sleep(1)  
yellow.on()
```

sleep(10)

yellow.off()

sleep(1)

green.on()

sleep(10)

green.off()

sleep(1)