ASSIGNMENT -3

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TOPIC: Python code for blinking LED ad Traffic lights for Raspberry pi

BLINKING LED

```
import RPi.GPIO as GP from time

import sleep GP.setwarnings(False)

GP.setmode(GP.BOARD)

 GP.setup(8,GP.OUT,initial=GP.LOW)

while True: #infinite loop

GP.output(8, GPIO.HIGH) # Turn on

print("The LED is ON") sleep(2) # Sleep for 2 second

 GP.output(8, GPIO.LOW) # Turn off

 print("The LED is OFF") sleep(2) # Sleep for 2 s
```

TRAFFIC LIGHT CONTROLLER

```
from gpiozero import LED

from time import sleep

red= LED(17) #pin numbers connected to Led's

aster=(22)

green=(27)

while True:

red.on() #RED light

print("Red light is ON")

for i in range(100,0,-1):

print("Remaining time: ",i)

sleep(1)
```

```python
red.off()
aster.on() # ASTER light
print("Yellow light is ON")
 for i in range(5,0,-1):
print("Remaining time: ",i)
sleep(1)
aster.off()
green.on #GREEN light
print("Green light is ON")
for i in range(30,0,-1):
print("Remaining time: ",i)
sleep(1)
green.off()
```