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ASSIGNMENT: 3

LED BLINKING

```python
import RPi.GPIO as GPIO    # Import Raspberry Pi GPIO library

from time import sleep      # Import the sleep function from the time module

GPIO.setwarnings(False)            # Ignore warning for now

GPIO.setmode(GPIO.BOARD)        # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)      # Set pin 8 to be an output pin and set initial value to low (off)

while True:   # Run forever

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

 sleep(2) # Sleep for 2 second

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

 sleep(2) # Sleep for 2
```

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)
```