

# ASSIGNMENT 3

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BY: Jenitaa Sharon J.G

**Write a python code for blinking LED and Traffic lights using Raspberry pi.**

## #Blinking LED

```
import RPi.GPIO as GPIO
import time

redLED = 4

GPIO.setmode(GPIO.BCM)

while True:
    GPIO.setup(redLED,GPIO.OUT)
    GPIO.output(redLED,True)
    Time.sleep(0.5)
    GPIO.output(redLED,False)
    Time.sleep(0.5)
GPIO.cleanup()
```

## #Traffic Light

```
import RPi.GPIO as GPIO
import time
import signal
import sys
#setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
#Turn off all lights when user ends demo
Def allLightsOFF(signal frame):
```

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```
GPIO.output (9, False)
GPIO.output(10, False)
GPIO.output(11, False)
GPIO.cleanup()
sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
# Loop forever
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(1)
    # Amber off (red comes on at top of loop)
    GPIO.output(10, False)
```