IBM (NALAIYA THIRAN)

ASSIGNMENT NO : 3

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CODE:

Python code for Blinking Led using Raspberry pi

```python
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)
```

CODE:

Python code for traffic light using raspberry pi

```python
import RPi.GPIO as GPIO
import time
import signal
import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
GPIO.setup(12, GPIO.OUT)
def allLightsOff(signal, frame):
    GPIO.output(11, False)
    GPIO.output(12, False)
    GPIO.output(13, False)
    GPIO.cleanup()
    sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
while True:

    GPIO.output(9, True)
    time.sleep(3)

    GPIO.output(10, True)
    time.sleep(1)

    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)

    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)

    GPIO.output(10, False)
```