## IBM-Nallaiya Thiran Project Assignment-3

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## **Question:**

Write python code for Blinking LED and Traffic lights for Raspberry pi.

## **Solution:**

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)

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):
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(2)

# Amber off (red comes on at top of loop)

GPIO.output(10, False)
```