NAME : NIMISHA
ROLL NO: 7376191EC214

1.PYTHON CODE TO BLINK AN LED

```
import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

GPIO.setup(18,GPIO.OUT)

print "LED on"

GPIO.output(18,GPIO.HIGH)

time.sleep(1)

print "LED off"

GPIO.output(18,GPIO.LOW)
```

2.PYTHON CODE FOR TRAFFIC LIGHT

```
import RPi.GPIO as GPIO
import time

try:
  def lightTraffic(led1, led2, led3, delay ):
    GPIO.output(led1, 1)
    time.sleep(delay)
    GPIO.output(led1, 0)
    GPIO.output(led2, 1)
    time.sleep(delay)
    GPIO.output(led2, 0)
    GPIO.output(led3, 1)
    time.sleep(delay)
    GPIO.output(led3, 0)
  GPIO.setmode(GPIO.BCM)
  button = 19
  GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)
  ledGreen = 16
  ledYellow = 12
  ledRed = 23
  GPIO.setup(ledGreen, GPIO.OUT)
  GPIO.setup(ledYellow, GPIO.OUT)
  GPIO.setup(ledRed, GPIO.OUT)
  while True:
    input_state = GPIO.input(button)
    if input_state == False:
      print('Button Pressed')
      lightTraffic(ledGreen, ledYellow, ledRed, 1)
    else:
      GPIO.output(ledGreen, 0)
      GPIO.output(ledYellow, 0)
      GPIO.output(ledRed, 0)
except KeyboardInterrupt:
  print "You've exited the program"
finally:
```

```
GPIO.cleanup()
```