Traffi light using Aurdino:

from time import sleep

from pyfirmata2 import Arduino

board = Arduino(Arduino.AUTODETECT)

red = board.digital[9]

yellow = board.digital[10]

green = board.digital[11]

leds = red, yellow, green

def off():

[led.write(0) for led in leds]

def on(\*colors, time=0):

off()

[color.write(1) for color in colors]

sleep(time)

on(red, time=3)

on(red, yellow, time=1.5)

on(green, time=3)

on(yellow, time=1.5)

on(red, time=3)

off()

board.exit()

LED blinking:

import serial #for Serial communication

import time #for delay functions

arduino = serial.Serial('com4',9600) #Create Serial port object called arduinoSerialData

time.sleep(2) #wait for 2 secounds for the communication to get established

print arduino.readline() #read the serial data and print it as line

print ("Enter 1 to get LED ON & 0 to get OFF")

while 1: #Do this in loop

var = raw\_input() #get input from user

if (var == '1'): #if the value is 1

arduino.write('1') #send 1

print ("LED turned ON")

time.sleep(1)

if (var == '0'): #if the value is 0

arduino.write('0') #send 0

print ("LED turned OFF")

time.sleep(1)