USB traffic light in Python

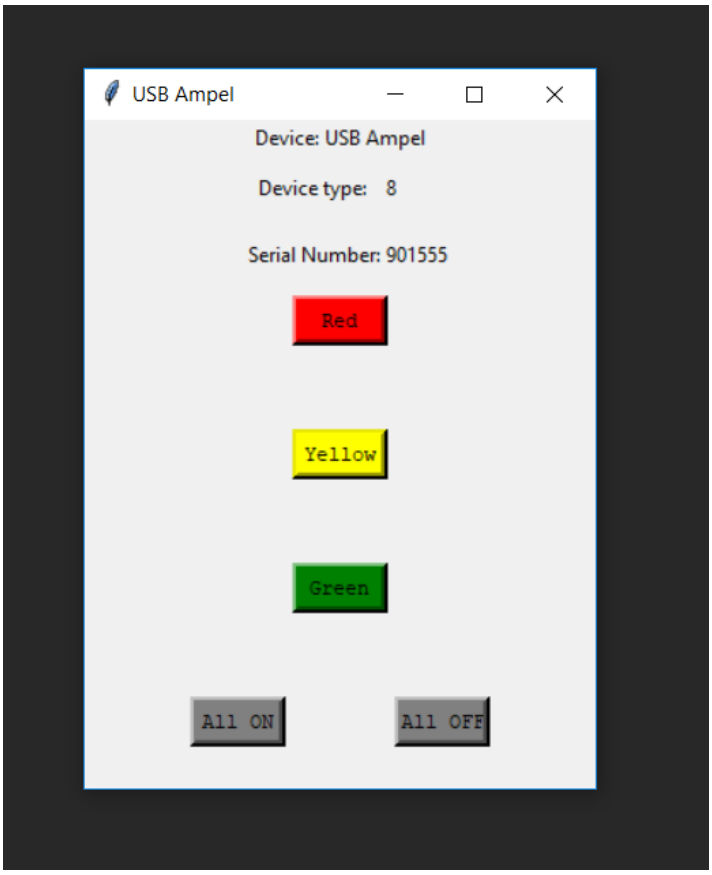
control Cleware's traffic light in Python :

Requirement :
1- Python
2- USBaccess.dll

The implementation:

```
from tkinter import *
from ctypes import *

mydll=windll.LoadLibrary("C:\\USBaccess.dll")

cw=mydll.FCWInitObject()
dev=mydll.FCWOpenCleware(cw)
serlNO=mydll.FCWGetSerialNumber(cw,0)
get_type=mydll.FCWGetUSBType(cw,0)

root=Tk()
app=Frame(root)
root.title("USB Ampel")
root.geometry("300x400")

label1=Label(text="Device: USB Ampel")
label1.pack()

sn=Label(text=serlNO)
sn.pack()
sn1=Label(text="Serial Number:")
sn1.pack()

gt=Label(text=get_type)
gt.pack()
gt1=Label(text="Device type: ")
gt1.pack()

def s_w_on_r():
    x=0
    mydll.FCWSetSwitch(cw,0,0X10,1)
    mydll.FCWSetSwitch(cw,0,0X11,0)
    mydll.FCWSetSwitch(cw,0,0X12,0)
def s_w_on_y():
    x=0
```

```
        mydll.FCWSetSwitch(cw,0,0X11,1)
        mydll.FCWSetSwitch(cw,0,0X10,0)
        mydll.FCWSetSwitch(cw,0,0X12,0)
def s_w_on_g():
        x=0
        mydll.FCWSetSwitch(cw,0,0X12,1)
        mydll.FCWSetSwitch(cw,0,0X10,0)
        mydll.FCWSetSwitch(cw,0,0X11,0)
def all_on():
        x=0
        mydll.FCWSetSwitch(cw,0,0X12,1)
        mydll.FCWSetSwitch(cw,0,0X10,1)
        mydll.FCWSetSwitch(cw,0,0X11,1)

def all_off():
        x=0
        mydll.FCWSetSwitch(cw,0,0X12,0)
        mydll.FCWSetSwitch(cw,0,0X10,0)
        mydll.FCWSetSwitch(cw,0,0X11,0)

red = Button(text="Red",bg="red",font = "Courier 9", width = 6, bd =
4,command=s_w_on_r)
yellow = Button(text="Yellow",bg="yellow",font = "Courier 9", width = 6, bd =
4,command=s_w_on_y)
green = Button(text="Green",bg="green",font = "Courier 9", width = 6, bd =
4,command=s_w_on_g)
allOn = Button(text="All ON",bg="gray",font = "Courier 9", width = 6, bd =
4,command=all_on)
allOff = Button(text="All OFF",bg="gray",font = "Courier 9", width = 6, bd =
4,command=all_off)

red.place(relx=0.5, rely=0.3, anchor=CENTER)
yellow.place(relx=0.5, rely=0.5, anchor=CENTER)
green.place(relx=0.5, rely=0.7, anchor=CENTER)
allOn.place(relx=0.3, rely=0.9, anchor=CENTER)
allOff.place(relx=0.7, rely=0.9, anchor=CENTER)
sn1.place(relx=0.45, rely=0.2, anchor=CENTER)


sn1.place()
sn.place(relx=0.65, rely=0.2, anchor=CENTER)
sn.place()

gt1.place(relx=0.45, rely=0.1, anchor=CENTER)
gt1.place()
gt.place(relx=0.6, rely=0.1, anchor=CENTER)
gt.place()
root.mainloop()
```



Red: turn on the red light
Yellow: turn on the yellow light
Green: turn on the green light
All ON : turn on the all lights
All OFF: turn off the all lights

*for this script has used PyScripter