#!/usr/bin/python

```
from PyQt4 import QtCore, QtGui
import serial
import sys, time
SERIALPORT = '/dev/ttvACMO'
ritardo = 2 #second
class Ui_MainWindow(object):
    def setupUi(self, MainWindow):
        MainWindow.setObjectName ("MainWindow")
        MainWindow.resize(800, 600)
        MainWindow.setMaximumSize(QtCore.QSize(800, 600))
        self.centralwidget = QtGui.QWidget(MainWindow)
        self.centralwidget.setObjectName("centralwidget")
        self.pushButton = QtGui.QPushButton(self.centralwidget)
        self.pushButton.setGeometry(QtCore.QRect(220, 290, 251, 61))
        self.pushButton.setObjectName("pushButton")
        self.pushButton 2 = QtGui.QPushButton(self.centralwidget)
        self.pushButton 2.setGeometry(QtCore.QRect(680, 510, 85, 27))
        self.pushButton 2.setObjectName("pushButton 2")
        self.textEdit = QtGui.QTextEdit(self.centralwidget)
        self.textEdit.setGeometry(QtCore.QRect(60, 140, 561, 94))
        self.textEdit.setObjectName("textEdit")
        self.lineEdit = QtGui.QLineEdit(self.centralwidget)
        self.lineEdit.setGeometry(QtCore.QRect(60, 50, 461, 23))
        self.lineEdit.setObjectName("lineEdit")
        self.pushButton 3 = QtGui.QPushButton(self.centralwidget)
        self.pushButton 3.setGeometry(QtCore.QRect(220, 370, 251, 61))
        self.pushButton 3.setObjectName("pushButton 3")
        MainWindow.setCentralWidget(self.centralwidget)
        self.menubar = QtGui.QMenuBar(MainWindow)
        self.menubar.setGeometry(QtCore.QRect(0, 0, 800, 27))
        self.menubar.setObjectName("menubar")
        self.menuMenu = QtGui.QMenu(self.menubar)
        self.menuMenu.setObjectName("menuMenu")
        MainWindow.setMenuBar(self.menubar)
        self.statusbar = QtGui.QStatusBar(MainWindow)
        self.statusbar.setObjectName("statusbar")
        MainWindow.setStatusBar(self.statusbar)
        self.menubar.addAction(self.menuMenu.menuAction())
        self.retranslateUi (MainWindow)
        #QtCore.QObject.connect(MainWindow, QtCore.SIGNAL("destroyed()"),
        MainWindow.deleteLater)
        QtCore.QObject.connect(self.pushButton, QtCore.SIGNAL("clicked()"),
        invia arduino on)
        QtCore.QObject.connect(self.pushButton 3, QtCore.SIGNAL("clicked()"),
        invia arduino off)
        #QtCore.QObject.connect(self.pushButton 3, QtCore.SIGNAL("clicked()"),
        leggi arduino)
```

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QtCore.QObject.connect(self.pushButton 2, QtCore.SIGNAL("clicked()"),
        quit gui)
        self.timer = QtCore.QTimer()
        QtCore.QObject.connect(self.timer, QtCore.SIGNAL("timeout()"), leggi arduino)
        self.timer.start(2000)
        QtCore.QMetaObject.connectSlotsByName (MainWindow)
    def retranslateUi(self, MainWindow):
        MainWindow.setWindowTitle (QtGui.QApplication.translate ("MainWindow",
        "Python QT e Arduino Esercizio 1", None, QtGui.QApplication.UnicodeUTF8))
        self.pushButton.setText(QtGui.QApplication.translate("MainWindow", "Led 13
        On", None, QtGui.QApplication.UnicodeUTF8))
        self.pushButton 2.setText (QtGui.QApplication.translate ("MainWindow", "Quit",
        None, QtGui.QApplication.UnicodeUTF8))
        self.lineEdit.setText(QtGui.QApplication.translate("MainWindow", "Prova
        Scrittura Programma Python Qt4", None, QtGui.QApplication.UnicodeUTF8))
        self.pushButton 3.setText(QtGui.QApplication.translate("MainWindow", "Led
        13 Off", None, QtGui.QApplication.UnicodeUTF8))
        self.menuMenu.setTitle(QtGui.QApplication.translate("MainWindow", "Menu",
        None, QtGui.QApplication.UnicodeUTF8))
def invia arduino on():
    testo arduino = "0"
    arduino.write(testo arduino)
    msg="Acceso Led 13"
    ui.lineEdit.setText(msg)
    ui.textEdit.append(str(msq))
    #time.sleep(ritardo)
def invia arduino off():
    testo arduino = "1"
    arduino.write(testo arduino)
    msg="Spento Led 13"
    ui.lineEdit.setText(msg)
    ui.textEdit.append(str(msg))
    #time.sleep(ritardo)
def quit gui():
    quit()
def leggi arduino():
    da arduino = arduino.readline().rstrip()
    #da arduino = "Pippo"
    print(str(da arduino))
    if (str(da arduino)):
        ui.textEdit.append(str(da arduino))
```

pass

```
if __name__ == "__main__":
    arduino = serial.Serial(SERIALPORT, 9600, timeout=1)
    time.sleep(ritardo)
    app = QtGui.QApplication(sys.argv)
    MainWindow = QtGui.QMainWindow()
    ui = Ui_MainWindow()
    ui.setupUi(MainWindow)
    MainWindow.show()
    sys.exit(app.exec_())
    arduino.close()
```