**# SerialRead.py**

# Import libraries

import serial

import sys

# X will be used as loop counter

x = 1

# InChar will be used to hold value from serial port

InChar = 0

# Open serial port

ser = serial.Serial('/dev/ttyACM0', 9600)

# Flush contents of serial port

ser.flush()

# Loop while x is less than 10

while x < 10:

# Read value from serial port

InChar = ser.readline()

# Print loop counter x and value read from serial port

print x, InChar

# Increment x by 1

x = x + 1

# Close serial port

ser.close

**# SerialDB.py**

# Import libraries

import serial

import time

import MySQLdb as mdb

import sys

# X will be used as loop counter

x = 1

# InChar will be used to hold value from serial port

InChar = 0

# HighLow set to High or Low depending on value in InChar

HighLow = ""

# Open serial port

ser = serial.Serial('/dev/ttyACM0', 9600)

# Flush contents of serial port

ser.flush()

# Open connection to MySQL database, User is ‘testuser’,

# password is ‘test623’ and table is ‘test’

con = mdb.connect('localhost', 'testuser', 'test623', 'test');

# Create cursor to hold data to be written to database

cur = con.cursor()

# Loop while x is less than 10

while x < 10:

# Read value from serial port

InChar = ser.readline()

# Check if value is greater than 50

if int(InChar) > 50:

# Value > 50, set HighLow to ‘High’ and

# write a 1 to serial port

HighLow = "High"

ser.write(chr(0x1))

else:

# Value < 50, set HighLow to ‘Low’ and

# write a 0 to serial port

HighLow = "Low"

ser.write(chr(0x0))

# Print loop counter x, Highlow and value

# read from serial port

print x, HighLow, InChar

# Execute SQL statement to insert InChar value into

# the RNUM column in the RndNums table

cur.execute("INSERT INTO RndNums(RNum) VALUES('" + str(InChar) + "')")

# Increment x by 1

x = x + 1

# Execute the SQL statement to commit/write data to

# database table. Without a Commit, data is not permanently

# stored in database

cur.execute("Commit;")

# Close serial port

ser.close