analog_read_test.py

```
from pyduino import *
import time



if __name__ == '__main__':

    print 'Establishing connection to Arduino...'

    # if your arduino was running on a serial port other than '/dev/ttyACM0/'
    # declare: a = Arduino(serial_port='/dev/ttyXXXX')
    a = Arduino()

    # sleep to ensure ample time for computer to make serial connection
    time.sleep(3)
    print 'established!'

    # define our LED pin
    PIN = 3

    # initialize the digital pin as output
    a.set_pin_mode(PIN,'O')

    # allow time to make connection
    time.sleep(1)

    # turn LED on
    a.digital_write(PIN,1)
```

```
for i in range(0,1000):

    try:
        # Read the analog value from analogpin 0
        analog_val = a.analog_read(0)

        # print value in range between 0-100
        print 'ANALOG READ =',int((analog_val/1023.)*100)
        time.sleep(1)

    except KeyboardInterrupt:
        break # kill for loop

# to make sure we turn off the LED and close our serial connection
print 'CLOSING...'
a.digital_write(PIN,0) # turn LED off
a.close()
```