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**README for Server and Client**

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**Description**

This program demonstrates how client requests the server to turn on/off the appliances. Client can also requests the server to get the status of all the appliances connected to server. In addition, client can also requests the server to send a video for monitoring purpose.

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**Pre requisite**

A. Pre req to run Client Program:
   1. Install gtk library.
      Run following command to install gtk 2.0 library:
      sudo apt-get install libgtk2.0-dev

B. Pre requisite to run Server program:
   1. Raspberry Pi with pre-installed NOOBS OS (Debian OS – Linux Flavored operating system)
   2. Install lWiringpi library
      Run following command to install lWiringpi library:
      i. sudo apt-get update
      ii. sudo apt-get upgrade
      iii. sudo apt-get install git-core
      iv. git clone git://git.drogon.net/wiringPi
      v. cd wiringPi
      vi. ./build

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**Steps for compiling and execution**

Execute the following from "Project Code" directory:

1. Execute the file named server.c
   syntax:- gcc server.c –o server -lWiringpi

2. Run the object file named server by executing following syntax
   syntax:- ./server <Port no.>
   e.g.:- ./server 9999

3. Execute the file named client.c
   syntax:- gcc client.c -o client `pkg-config --cflags --libs gtk+-2.0`

4. Run the object file named client by following syntax
   syntax:- ./client <Server IP Address> <Port no.>
   e.g.:- ./client 127.0.0.1 9999