CS 5600 – Computer Networks
Project midterm demo

Requirement: *You have to show that you can establish connection between two machines and request and download files.*

Platform: Linux Ubuntu 64-bit

Manually test the following commands:

The protocol format of the messages between the peer program and the tracker server will be:

1. createtracker: message from peer to the tracker server
<createtracker filename filesize description md5 ip-address port-number>\n

createtracker: message from tracker server to the peer program
if command successful: <createtracker succ>\n
if command unsuccessful: <createtracker fail>\n
if tracker file already exists: <createtracker ferr>\n

2. updatetracker: message from peer to the tracker server
<updatetracker filename start_bytes end_bytes ip-address port-number>\n

updatetracker: message from tracker server to the peer program
if tracker file does not exist: <updatetracker filename ferr>\n
if tracker file update successful: <updatetracker filename succ>\n
any other error / unable to update tracker file: <updatetracker filename fail>\n

3. LIST – This command is sent by a connected peer to the tracker server to send over to the requesting peer the list of (tracker) files in the shared directory at the server. The format of the incoming message from the connected peer will be
<REQ LIST>\n

In reply to the LIST request the server reply message structure must be:
<REP LIST X>\n
<1 file1name file1size file1MD5>\n
<2 file2name file2size file2MD5>\n
...
<x fileXname fileXsize fileXMD5>\n
<REP LIST END>\n

4. GET: For mid-term demo, you can download the requested file from either the tracker server or from another machine (make sure the file is already in that machine).

<GET filename.track >\n

The server's response to the GET command must be:
<REP GET BEGIN>\n
<tracker_file_content >\n
<REP GET END FileMD5>\n