

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect

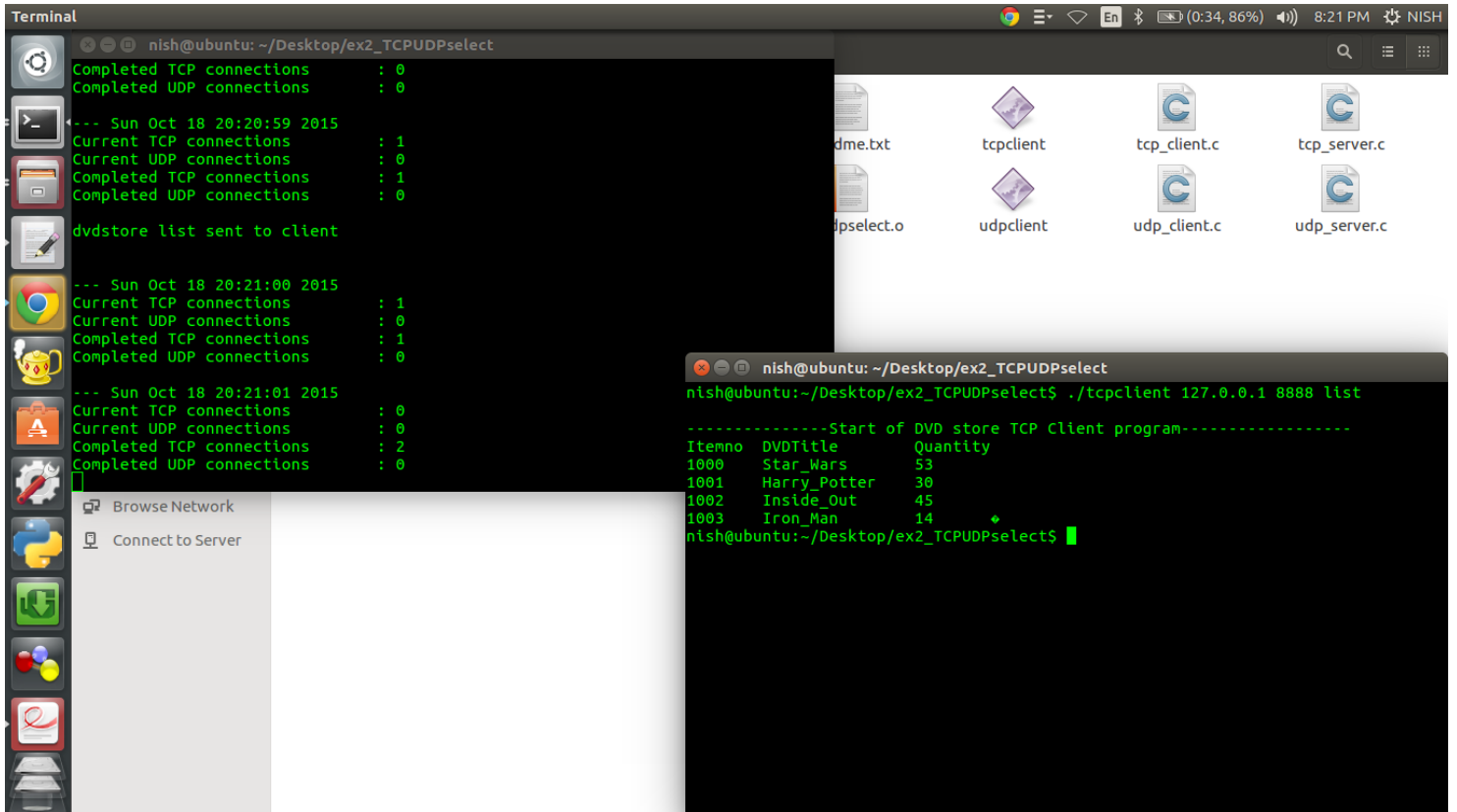
8:20 PM NISH

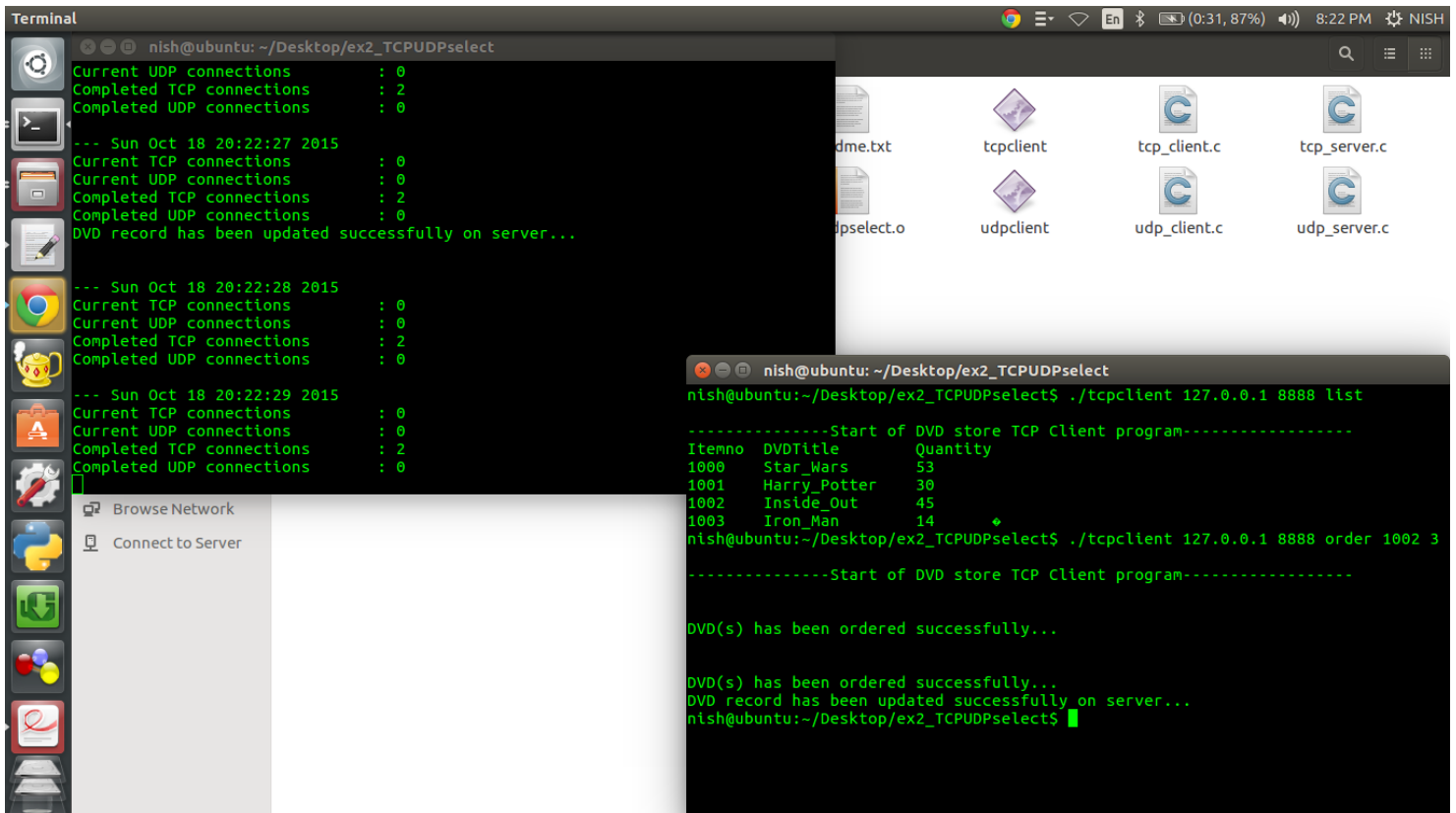
```
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpudpselect 127.0.0.1 8888
```

```
--- Sun Oct 18 20:20:19 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 0
Completed UDP connections    : 0
```

```
--- Sun Oct 18 20:20:20 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 0
Completed UDP connections    : 0
```

```
--- Sun Oct 18 20:20:21 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 0
Completed UDP connections    : 0
```





Terminal

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect

```
Completed TCP connections : 2
Completed UDP connections : 0

--- Sun Oct 18 20:22:45 2015
Current TCP connections   : 1
Current UDP connections   : 0
Completed TCP connections : 2
Completed UDP connections : 0

--- Sun Oct 18 20:22:46 2015
Current TCP connections   : 1
Current UDP connections   : 0
Completed TCP connections : 3
Completed UDP connections : 0

dvdstore list sent to client

--- Sun Oct 18 20:22:47 2015
Current TCP connections   : 1
Current UDP connections   : 0
Completed TCP connections : 3
Completed UDP connections : 0
```

Browse Network
Connect to Server

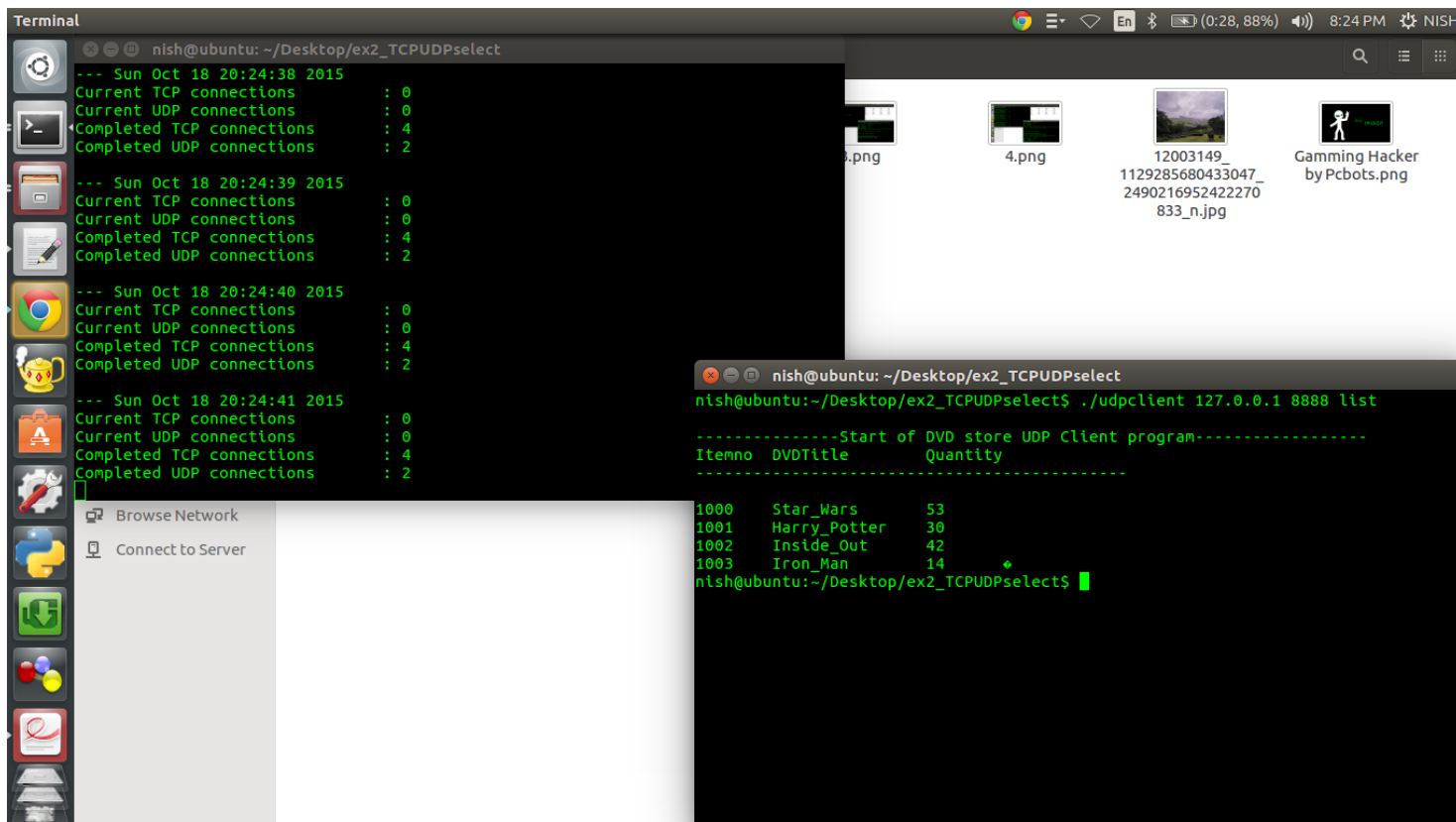
me.txt
pselect.o
tcpclient
udpclient
tcp_client.c
udp_client.c
tcp_server.c
udp_server.c

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect

```
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  45
1003    Iron_Man   14
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 order 1002 3
-----Start of DVD store TCP Client program-----

DVD(s) has been ordered successfully...

DVD(s) has been ordered successfully...
DVD record has been updated successfully on server...
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  42
1003    Iron_Man   14
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
```



Terminal

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect

```
Completed TCP connections : 4
Completed UDP connections : 2

--- Sun Oct 18 20:25:02 2015
Current TCP connections   : 0
Current UDP connections   : 0
Completed TCP connections : 4
Completed UDP connections : 2

--- Sun Oct 18 20:25:03 2015
Current TCP connections   : 0
Current UDP connections   : 0
Completed TCP connections : 4
Completed UDP connections : 2

DVD record has been updated successfully on server...

--- Sun Oct 18 20:25:04 2015
Current TCP connections   : 0
Current UDP connections   : 1
Completed TCP connections : 4
Completed UDP connections : 2
```

Browse Network
Connect to Server

Desktop icons: 1.png, 4.png, 5.png, 12003149_1129285680433047_2490216952422270_833_n.jpg

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect

```
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpclient 127.0.0.1 8888 list

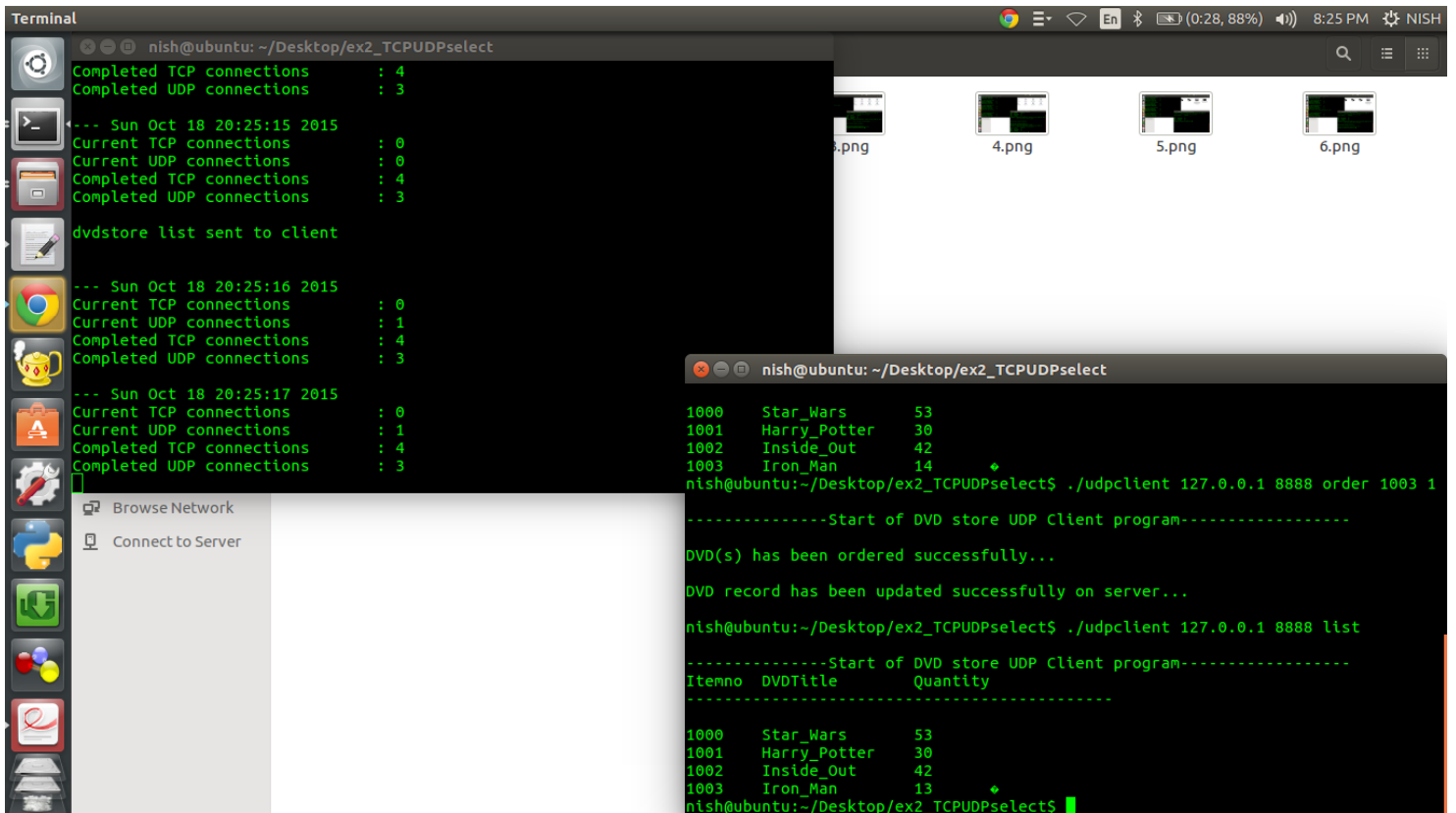
-----Start of DVD store UDP Client program-----
Itemno  DVDTitle      Quantity
-----
1000    Star_Wars      53
1001    Harry_Potter   30
1002    Inside_Out     42
1003    Iron_Man       14
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpclient 127.0.0.1 8888 order 1003 1

-----Start of DVD store UDP Client program-----

DVD(s) has been ordered successfully...

DVD record has been updated successfully on server...

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
```



The terminal displays the following sequence of events:

- Initial State:** Both hosts show 0 current TCP connections, 1 current UDP connection, 9 completed TCP connections, and 8 completed UDP connections.
- Action:** The left host sends "dvdstore list sent to client".
- Client Request:** The right host runs `./tcpclient 127.0.0.1 8888 list`.
- Server Response:** The left host outputs:

```
-----Start of DVD store TCP Client program-----  
Itemno  DVDTITLE    Quantity  
1000    Star_Wars     53  
1001    Harry_Potter    30  
1002    Inside_Out      42  
1003    Iron_Man       13
```
- Client Action:** The right host runs `./udpcient 127.0.0.1 8888 list` (note the typo).
- Server Response:** The left host outputs:

```
-----Start of DVD store UDP Client program-----  
Itemno  DVDTITLE    Quantity  
1000    Star_Wars     53  
1001    Harry_Potter    30  
1002    Inside_Out      42  
1003    Iron_Man       13
```



```
Terminal
nish@ubuntu: ~/Desktop/ex2_TCPUDPselect
--- Sun Oct 18 20:30:55 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 20
Completed UDP connections    : 14

--- Sun Oct 18 20:30:56 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 20
Completed UDP connections    : 14

DVD record has been updated successfully on server...

--- Sun Oct 18 20:30:57 2015
Current TCP connections      : 0
Current UDP connections      : 0
Completed TCP connections    : 20
Completed UDP connections    : 14

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  42
1003    Iron_Man   13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  42
1003    Iron_Man   13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  42
1003    Iron_Man   13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpclient 127.0.0.1 8888 list
-----Start of DVD store UDP Client program-----
Itemno  DVDTitle  Quantity
1000    Star_Wars  53
1001    Harry_Potter  30
1002    Inside_Out  42
1003    Iron_Man   13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpclient 127.0.0.1 8888 order 1001 2
-----Start of DVD store UDP Client program-----
DVD(s) has been ordered successfully...
DVD record has been updated successfully on server...
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
```

```
Terminal
nish@ubuntu: ~/Desktop/ex2_TCPUDPselect
--- Sun Oct 18 20:32:05 2015
Current TCP connections      : 1
Current UDP connections      : 0
Completed TCP connections    : 34
Completed UDP connections    : 23

--- Sun Oct 18 20:32:06 2015
Current TCP connections      : 1
Current UDP connections      : 0
Completed TCP connections    : 34
Completed UDP connections    : 23

--- Sun Oct 18 20:32:07 2015
Current TCP connections      : 0
Current UDP connections      : 1
Completed TCP connections    : 35
Completed UDP connections    : 23

dvdstore list sent to client

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect
1002  Inside_Out  42
1003  Iron_Man    13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno  DVDTitle    Quantity
1000    Star_Wars     53
1001    Harry_Potter  28
1002    Inside_Out    42
1003    Iron_Man      13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
^[[AItemno  DVDTitle    Quantity
1000    Star_Wars     53
1001    Harry_Potter  28
1002    Inside_Out    42
1003    Iron_Man      13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----

nish@ubuntu: ~/Desktop/ex2_TCPUDPselect
-----Start of DVD store UDP Client program-----
Itemno  DVDTitle    Quantity
1000    Star_Wars     53
1001    Harry_Potter  28
1002    Inside_Out    42
1003    Iron_Man      13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpcclient 127.0.0.1 8888 list
-----Start of DVD store UDP Client program-----
Itemno  DVDTitle    Quantity
1000    Star_Wars     53
1001    Harry_Potter  28
1002    Inside_Out    42
1003    Iron_Man      13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
```

```
Terminal
nish@ubuntu: ~/Desktop/ex2_TCPUDPselect
Completed TCP connections      : 38
Completed UDP connections      : 24

--- Sun Oct 18 20:32:20 2015
Current TCP connections        : 0
Current UDP connections        : 0
Completed TCP connections      : 38
Completed UDP connections      : 24

--- Sun Oct 18 20:32:21 2015
Current TCP connections        : 0
Current UDP connections        : 0
Completed TCP connections      : 38
Completed UDP connections      : 24

--- Sun Oct 18 20:32:22 2015
Current TCP connections        : 0
Current UDP connections        : 0
Completed TCP connections      : 38
Completed UDP connections      : 24

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
^[[AItemno    DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
-----Start of DVD store TCP Client program-----
^[[A
Itemno DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./tcpclient 127.0.0.1 8888 list
-----Start of DVD store TCP Client program-----
Itemno DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$

nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
-----Start of DVD store UDP Client program-----
Itemno DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$ ./udpclient 127.0.0.1 8888 list
-----Start of DVD store UDP Client program-----
Itemno DVDTitle    Quantity
1000    Star_Wars      53
1001    Harry_Potter     28
1002    Inside_Out        42
1003    Iron_Man          13
nish@ubuntu:~/Desktop/ex2_TCPUDPselect$
```