

File Delivery

Prerequisites

- Java 1.6 (All Sources are Compiled on Java 1.6)

Steps to Run –

- Below is the command to execute the Jar accepts Pipe separated startup file as argument.

```
java -jar FileDelivery_Final.jar  
/Users/praveenkumar/Documents/GIT_WORKSPACE/FileDelivery/input/i  
nput
```

Application Overview –

- ✚ File Delivery application accepts the option from user for various kinds of operations as shown below.

```
Please select one of the following:  
1 – List Hosts  
2 – List Links  
3 – Add a Link  
4 – Find a Path  
5 – Quit  
Please enter option number :
```

Option 1 (List Hosts) –

- ✚ This option will display all the hosts that are present in the input startup file
- ✚ It also includes the hosts that are added from **Option 3 (Add a Link)**.

Option 2 (List Links) –

- ✚ This option will display all the Link information that are present in the input startup file.
- ✚ It also includes the Links that are added from **Option 3 (Add a Link)**.

Option 3 (Add a Link) –

- ✚ This option allows user to add new link information at run time.

- ✚ Application **will consider** the Link added at run time and will be able to recalculate the shortest path including new Link information after selecting **Option 4 for Finding Path** again.

Option 4 (Find a Path) –

- ✚ This option asks user to provide Source and Target hosts for finding the shortest path between them.
- ✚ I have implemented Dijkstra's Algorithm in order to find the shortest path between the hosts.

Sample Output of “List Hosts”: Option 1

```
[praveenkumar:~/Desktop]$ java -jar FileDelivery_Final.jar /Users/praveenkumar/Documents/GIT_WORKSPACE/FileDelivery/input/input
Please select one of the following:
1 - List Hosts
2 - List Links
3 - Add a Link
4 - Find a Path
5 - Quit
Please enter option number :
1
**** LIST OF HOSTS ****
D
E
F
G
W1
A
B
C
M
N
O
H
I
J
U
T
XA
W
V
Q
P
XE
S
XD
```

Sample Output of “List Links”: Option 2

```
[praveenkumar:~/Desktop]$ java -jar FileDelivery_Final.jar /Users/praveenkumar/Documents/GIT_WORKSPACE/FileDelivery/input/input
Please select one of the following:
1 - List Hosts
2 - List Links
3 - Add a Link
4 - Find a Path
5 - Quit
Please enter option number :
2
**** LIST OF LINKS ****
U ftp AA
W sam XY
P scp Q
A scp B
XY scp WW
M rsync A
G rsync H
F scp H
F scp G
AF ftp O
WW ftp A
H scp I
J scp F
N sam DF
C rsync D
B ftp C
B ftp D
X scp XA
Z rsy A
R scp AF
AS scp DE
T ftp UV
O scp AE
```

Sample Output of “Add a Link”: Option 3

```
[praveenkumar:~/Desktop]$ java -jar FileDelivery_Final.jar /Users/praveenkumar/Documents/GIT_WORKSPACE/FileDelivery/input/input
Please select one of the following:
1 - List Hosts
2 - List Links
3 - Add a Link
4 - Find a Path
5 - Quit
Please enter option number :
3
please provide the following

Source Host :
AD
Transfer Protocol :
FTP
Target Host :
ZZ
```

Sample Output of “Find a Path”: Option 4

```
|praveenkumar:~/Desktop|$ java -jar FileDelivery_Final.jar /Users/praveenkumar/Documents/Git_WORKSPACE/FileDelivery/input/input
Please select one of the following:
1 - List Hosts
2 - List Links
3 - Add a Link
4 - Find a Path
5 - Quit
Please enter option number :
4
please provide the following

Source Host :
AA
Target Host :
D
##### PATH #####
AA scp B ftp D
#####
Please select one of the following:
1 - List Hosts
2 - List Links
3 - Add a Link
4 - Find a Path
5 - Quit
Please enter option number :
```