

## Assignment 2

[100 marks]

As part of this assignment, you will implement a file sharing and management system.  
Programming language allowed: **Java**

Following are the requirements that must be met to complete the assignment -

<b>1- Account creation</b>	[5 marks]
cmd: <code>create_user `username`</code>	[5]
<b>2- File management</b>	[35 marks]
<i>2.1: upload files to server</i>	
cmd: <code>upload `filename`</code>	[10]
cmd : <code>upload_udp `filename`</code>	[10]
<i>2.2: create folder on server</i>	[5]
cmd: <code>create_folder `foldername`</code>	
<i>2.3: move files to/among folder</i>	[10]
cmd: <code>move_file `source_path` `dest_path`</code>	
<b>3- Group management</b>	[50 marks]
<i>3.1 Create group</i>	
cmd: <code>create_group `groupname`</code>	[5]
<i>3.2 List groups</i>	[5]
cmd: <code>list_groups</code>	
<i>3.3 Join/leave group</i>	[5]
cmd: <code>join_group `groupname`</code>	
cmd: <code>leave_group `groupname`</code>	
<i>3.3 List users and user files with path in a group</i>	[10]
cmd: <code>list_detail `groupname`</code>	
<i>3.4 Share message in group</i>	[10]
cmd: <code>share_msg `message text`</code>	
<i>3.5 Download file from any user in group</i>	[15]
cmd: <code>get_file `groupname/username/file_path`</code>	
The system should be able to run on multiple machines. Server on one machine and clients on other machines	[10 marks] (-10 marks if not done)

**NOTE:** Strict actions would be taken against anyone found involved in any kind of plagiarism either from the internet or from other students.

