**Manual**

**Client-Side:**

The first word of the command is the identifier for the function, like which operation client want to perform and the remaining of the command is the argument passed for the operation or function. There are total of 8 commands, four commands for basic mathematical operations and 4 for process functions.

The mathematical commands:

1. ‘add’: for addition of given numbers in the argument(s).
2. ‘sub’: : for subtraction of given numbers in the argument(s).
3. ‘mult’: for multiplication of given numbers in the argument(s). Negative numbers can be given.
4. ‘div’: for division of given numbers in the argument(s).

Note: The numbers in the argument should be with spaces. Negative numbers can be given in the argument, however, any character or 0 in ‘div’ command (except in argument 1) as argument would result in “invalid argument” as an output.

Process’s commands:

1. ‘run’: Name of the process should be passed as an argument, in order to run/execute that process
2. ‘kill’: Name or process id of the process (which client has executed) is passed as an argument to terminate that process.
3. ‘list’: No argument should be given. It prints the information of active processes, in form of a list, which client has created.
4. ‘listall’: No argument should be given. It prints the information of all processes, in form of a list, which client has created.

**Server-Side:**

First word of the command is to identify for which client, the server requires the information. The second word is for function (ie. what information the server wants or give to client(s)). The remaining of the command is considered as an argument for that function.

Identifier: for specific client use its client handler’s id (i.e. ‘ch1’, ‘ch2’ etc) and for all clients use ‘all’.

3 functions:

1. ‘list’: to get information of active/running processes of the given client(s)
2. ‘listall’: to get information of all processes, both running and terminated, of the given client(s)
3. ‘print’: to send the message to given client(s), arguments would be considered as the message.