**Pre-requisites:**

1. JDK-8
2. sudo apt-get remove openjdk\*
3. sudo apt update
4. sudo apt install openjdk-8-jdk openjdk-8-jre
5. java -version // it should have version start with 1.8... etc
6. Download [MPJ Express](https://sourceforge.net/projects/mpjexpress/files/releases/mpj-v0_44.tar.gz/download) & extract it in Downloads
7. Install Apache Netbeans (It will be Easier to work with Netbeans on Windows than Ubuntu)  
   Download [NetBeans 8.2 With Glassfish 4.1.1](https://drive.google.com/file/d/1Cg3Tn8ALQlrFyEGO3e6lH4h8cvECDylu/view?usp=sharing)
8. To Install :
9. sudo bash [file\_name.sh]

\*\*\* For Jdk Path in setup Enter Path from :/usr/lib/jvm/[jdk] In my Case : /usr/lib/jvm/java-8-openjdk-amd64 Glassfish server version must be 4.1.1

Windows: [NetBeans for Windows 8.2](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqazNzTWYtMG93eUMwXzJHb2RDRm1KaFp1YlRyUXxBQ3Jtc0ttWWpvRHZHZzM4MUNYRndTaUxwRUxVUVltZU1PSWZ4X0dPRUZxU0NMWEE1SzlCMk5TVlhMN2R4R2pxSFpDODdhUlJsUVJUTXc4QTN2cWlIaE5oMWVKWGliTTZUUm1ueFFTNE5xeG51NUVFRnJtS25LRQ&q=https%3A%2F%2Fbit.ly%2F3MMVGTe&v=ASd1S-_HLWw)

**Assignment 1:**

Terminal 1:

javac \*.java

rmic AddServerImpl

Terminal 2:

rmiregistry

Terminal 3:

java AddServer

Terminal 4:

java AddClient 127.0.0.1 5 8 // The Number of Arguments are Specified after localhost address.

**Assignment 2: (if You are getting error in this or next assignment then issue is with Java Version it works with Java 8 only as it is depreciated after Java 8 :)**

Terminal 1:

idlj -fall ReverseModule.idl

javac \*.java ReverseModule/\*.java

orbd -ORBInitialPort 1056&

java ReverseServer -ORBInitialPort 1056&

Terminal 2:

java ReverseClient -ORBInitialPort 1056 -ORBInitialHost localhost

**Assignment 3: (Specify Path Properly Don't Just Copy Paste the Command ;)**

Terminal:

export MPJ\_HOME=/home/ubuntu/Downloads/mpj-v0\_44

export PATH=$MPJ\_HOME/bin:$PATH

javac -cp $MPJ\_HOME/lib/mpj.jar ArrSum.java

$MPJ\_HOME/bin/mpjrun.sh -np 4 ArrSum // Specified value of n=4 here

**Assignment 4:**

Terminal 1:

python client.py

Terminal 2:

python server.py

**Assignment 5:**

Commands to run Berkeley algo in java

Terminal 1 javac \*.java rmiregistry

Terminal 2: java Clock\_One

Terminal 3: java Clock\_Two

Terminal 4: java Clock\_Three

Terminal 5: java MainClock

**Assignment 5:**

Terminal

javac Tring.java

java Tring

**Assignmnet 6:**

Terminal

javac Bully.java

java Bully

javac Ring.java

java Ring