

Distributed System lab commands

-----Assignment-1 (RMI)-----

1) open terminal in RMI folder

```
sanket@ubuntu:~/Desktop/RMI$ javac *.java
```

```
sanket@ubuntu:~/Desktop/RMI$ rmic AddServerImpl
```

```
sanket@ubuntu:~/Desktop/RMI$ rmiregistry
```

2) In RMI folder create 'client' folder and copy below files

AddClient.class

AddServerImpl_stub.class

AddServerIntf.class

3) In RMI folder create 'server' folder and copy below files

AddServer.class

AddServerImpl.class

AddServerImpl_stub.class

AddServerIntf.class

4) open new terminal in server folder

```
sanket@ubuntu:~/Desktop/RMI/server$ java AddServer
```

5) open new terminal in client folder

```
sanket@ubuntu:~/Desktop/RMI/client$ java AddClient 127.0.0.1 10 5
```

=====X=====X=====X=====

-----Assignment-2 (IDL CORBA)-----

1) open terminal in IDL CORBA folder

```
sanket@ubuntu:~/Desktop/IDL CORBA$ idlj -fall ReverseModule.idl
```

```
sanket@ubuntu:~/Desktop/IDL CORBA$ javac *.java ReverseModule/*.java
```

```
sanket@ubuntu:~/Desktop/IDL CORBA$ orbd -ORBInitialPort 1050&
```

```
sanket@ubuntu:~/Desktop/IDL CORBA$ java ReverseServer -ORBInitialPort 1050& -ORBInitialHost localhost&
```

2) open another new terminal in IDL CORBA folder

```
sanket@ubuntu:~/Desktop/IDL CORBA$ java ReverseClient -ORBInitialPort 1050 -ORBInitialHost localhost
```

Enter string=

hi this is corba.

=====X=====X=====X=====

-----Assignment-3 (MPI)-----

1) open terminal in MPI folder

```
sanket@ubuntu:~/Desktop/MPI$ sudo apt-get install openmpi-bin libopenmpi-dev
```

```
sanket@ubuntu:~/Desktop/MPI$ mpicc MPI.c -o MPI
```

```
sanket@ubuntu:~/Desktop/MPI$ mpicc -I/path/to/mpi/include MPI.c -o MPI
```

```
sanket@ubuntu:~/Desktop/MPI$ ./MPI
```

=====X=====X=====X=====

-----Assignment-4 (Berkeley) -----

1) open terminal in Berkeley folder

```
sanket@ubuntu:~/Desktop/Berkeley$ javac *.java
```

```
sanket@ubuntu:~/Desktop/Berkeley$ java BerkeleyAlgorithm
```

=====X=====X=====X=====

-----Assignment-5 (Token ring) -----

1)open terminal in Token folder

```
sanket@ubuntu:~/Desktop/token$ javac *.java
```

```
sanket@ubuntu:~/Desktop/token$ java Tok
```

OUTPUT:

Enter the num of nodes:

4

0 1 2 3 0

Enter sender:

1

Enter receiver:

3

Enter Data:

10

Token passing: 0-> 1

Sender 1 sending data: 10

data 10 forwarded by 2

Receiver 3 received data: 10

=====x=====x=====x=====

-----Assignment-6 (Bully and ring) -----

1)open terminal in 'Bully and ring' folder

```
sanket@ubuntu:~/Desktop/Bully and ring$ javac Bully.java
```

```
sanket@ubuntu:~/Desktop/Bully and ring$ java Bully
```

=====x=====x=====x=====

-----Assignment-1,2,3 (video link) -----

https://youtube.com/playlist?list=PLZoBm3Bjtn4nqlp6B_xWU8GVN1pr2gXDa

-----Assignment-7 (web service)-----

https://www.youtube.com/watch?v=XA3N6LmCMeo&ab_channel=KetulPatel