
Installation:-

Install Git:- Sudo apt install git

Check Versions:- gcc --version
python --version
javac --version (javac 1.8.0)

Java install:- sudo apt install (version name)

Git Clone:- git clone (link)

After downloading vs code in that exact folder

Sudo dpkg -i (tab)

Uninstall old java version:- sudo apt-get autoremove (version)

Assignment 1:- Implement multi-threaded client/server Process communication using RMI.**Open terminal**

1. javac Server.java
2. java Server

Open 2nd terminal

1. javac Client.java
 2. java Client
-

Assignment 2:- Develop any distributed application using CORBA to demonstrate object brokering**Open 1st terminal**

1. idlj -fall ReverseModule.idl
2. javac *.java ReverseModule/*.java
3. tnameserv -ORBInitialPort 3000

Open 2nd terminal

1. java ReverseServer -ORBInitialPort 3000 -ORBInitialHost localhost

Open 3rd terminal

1. java ReverseClient -ORBInitialPort 3000 -ORBInitialHost localhost
-

Assignment 3:- Develop a distributed system, to find sum of N elements in an array by distributing N/n elements to n number of processors MPI or OpenMP. Demonstrate by displaying the intermediate sums calculated at different processors.**Open 1st terminal**

1. sudo apt install build-essentials
 2. sudo apt install mpich
 3. mpicc arr_sum.c -o sum
 4. mpirun -np 4 ./mpi_sum
-

Assignment 4:- Implement Berkeley algorithm for clock synchronization.**Open 1st terminal**

1. python3 server.py

Open 2nd terminal

1. python3 client.py
-

Assignment 5: Implement token ring based mutual exclusion algorithm**Open terminal**

1. python3 token-ring.py
-

Assignment 6:- Implement Bully and Ring algorithm for leader election

Open terminal

1. python3 bully_ring.py

Assignment 7:- Create a simple web service and write any distributed application to consume the web service.

Open 1st terminal

1. open cmd prompt
2. npm install
3. cd server
4. npm install
5. npm install nodemon
6. node index.js

Open 2nd terminal

1. npm start app.js

Open Browser:

1. enter url :- localhost:3000/users
-