**\*\*\*\*\*\*\*\*\*\*Assignment 1\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Installations :- java jdk

link: https://www.oracle.com/in/java/technologies/downloads/#jdk20-windows

Steps

1)open cmd prompt

2) `javac Server.java`

3)`java Server`

4)Open another cmd prompt

5)`javac Client.java`

6)`java Client`

**\*\*\*\*\*\*\*\*\*\*Assignment 2\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Installations :- java jdk v1.6 or above

Steps:

1: make all files needed (ReverseModule.idl,ReverseImpl.java,ReverseServer.java,ReverseClient.java)

2:idlj -fall ReverseModule.idl

3: javac \*.java ReverseModule/\*.java

4:tnameserv -ORBInitialPort 3000

5:java ReverseServer -ORBInitialPort 3000 -ORBInitialHost localhost

6:java ReverseClient -ORBInitialPort 3000 -ORBInitialHost localhost

**\*\*\*\*\*\*\*\*\*\*Assignment 3\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Softwares Required - gcc compiler,mpi library

Procedure:

1. Install the gcc compiler on ubuntu if not installed (to check if gcc compiler is installed or not run this command - "gcc --version"). Install the husing the command

"sudo apt install build-essentials"

2. Install the mpi library using the following command - "sudo apt install mpich"

3. To execute the file , open the terminal in the folder where the file resides.

4. Execute the following commands one by one -

i. mpicc arr\_sum.c -o mpi\_sum

ii. mpirun -np 4 ./mpi\_sum

5. The output will be displayed.

**\*\*\*\*\*\*\*\*\*\*Assignment 4\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Software Required :- Python 3.7 or above

link :- https://www.python.org/downloads/

Steps

1)sudo su

2) sudo apt install python-pip

3)pip install python-dateutil

4)open cmd prompt

5) `python server.py`

6)Open another cmd prompt

7) `python client.py`

**\*\*\*\*\*\*\*\*\*\*Assignment 5\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Softwares Required – Python v3.7 or later

Procedure:

1. Make sure Python is installed. If not, install python (v3.7 or above)

2. For executing the program, open terminal in the folder where the python file resides.

3. Type the following command -

python3 token-ring.py

4. The output will be displayed.

**\*\*\*\*\*\*\*\*\*\*Assignment 6\*\*\*\*\*\*\*\*\*\***

OS Required : Ubuntu

Softwares Required – Python v3.7

Procedure:

1. Make sure Python is installed. If not, install python (v3.7 or above)

2. For executing the program, open terminal in the folder where the python file resides.

3. Type the following command -

python3 bully\_ring.py

4. The output will be displayed.

**\*\*\*\*\*\*\*\*\*\*Assignment 7\*\*\*\*\*\*\*\*\*\***

OS Required : Windows

Software required:- Node.js

link : https://nodejs.org/en/download

Steps

1)open cmd prompt

2) “npm install”

3) “cd server”

4) “npm install”

5) cd server

6) `node index.js`

7) open another terminal

8) `npm start `