This repository contains distributed systems assignments according to SPPU 2019 Pattern along with their execution steps

meghadandapat Update README.md		last year
Assign1	Update AddServer.java	last year
Assign2	deleted class files	last year
Assign3	Delete arrSum.java	last year
Assign4	Update server.py	last year
Assign5	client server using java sockets	last year
Assign6	Update Bully.java	last year
Assign7	LP-5 assignments	last year
Sockets	Delete Client.class	last year
README.md	Update README.md	last year

Distributed Systems Assignments of SPPU Final Year IT Syllabus (2019 pattern)

Assignment No.	Problem Statement
Assignment 1	Implement multi-threaded client/server Process communication using RMI.
Assignment 2	Develop distributed application using CORBA to demonstrate object brokering (Calculator or String operations).
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.
Assignment 4	Implement Berkeley algorithm for clock synchronization.
Assignment 5	Implement token ring based mutual exclusion algorithm.
Assignment 6	Implement Bully and Ring algorithm for leader election.
Assignment 7	Create a simple web service and write distributed application(calculator) to consume the Web Service.
Extra	Develop any distributed application for implementing client-server communication programs based on Java Sockets.

Execution Steps

Pre-requisites:

1. Install JDK-8

```
sudo apt-get remove openjdk*
sudo apt update
sudo apt install openjdk-8-jdk openjdk-8-jre
```

2. Download MPJ Express and extract in the Downloads dir

3. Install Apache Netbeans

```
sudo apt update && sudo apt upgrade
sudo snap install netbeans --classic
```

Glassfish server version must be 4.1.1

Assignment 1:

Terminal 1:

```
javac *.java
rmic AddServerImpl
```

README

Terminal 2:

```
rmiregistry
```

Terminal 3:

```
java AddServer
```

Terminal 4:

```
java AddClient 127.0.0.1 5 8
```

Assignment 2:

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:

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
```

Assignment 4:

Terminal 1:

```
python client.py
```

Terminal 2:

```
python server.py
```

Assignment 5:

Terminal

```
javac Tring.java
java Tring
```

Assignmnet 6:

Terminal

```
javac Bully.java
java Bully
javac Ring.java
java Ring
```

Assignment 7:

Youtube tutorial

Extra:

Terminal 1:

```
javac *.java
java Server
```

Reminal 2:

```
java Client
```

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Languages

Java 85.7% Python 9.9% HTML 4.4%

Suggested workflows

Based on your tech stack

Django

Build and Test a Django Project

Configure

Publish Java Package with Gradle

Build a Java Package using Gradle and publish to GitHub Packages.

Configure

Publish Java Package with Maven

Configure

Build a Java Package using Maven and publish to GitHub Packages.

More workflows

Dismiss suggestions