

LPV Practical Code and Outputs

Assignment No 1

Servant.java

```
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;
import java.rmi.*;
import java.rmi.server.*;

public class Servant extends UnicastRemoteObject implements ServerInterface {
    protected Servant() throws RemoteException {
        super();
    }

    @Override
    public String concat(String a, String b) throws RemoteException {
        return a + b;
    }
}
```

ServerInterface.java

```
import java.rmi.*;

public interface ServerInterface extends Remote {
    String concat(String a, String b) throws RemoteException;
}
```

Server.java

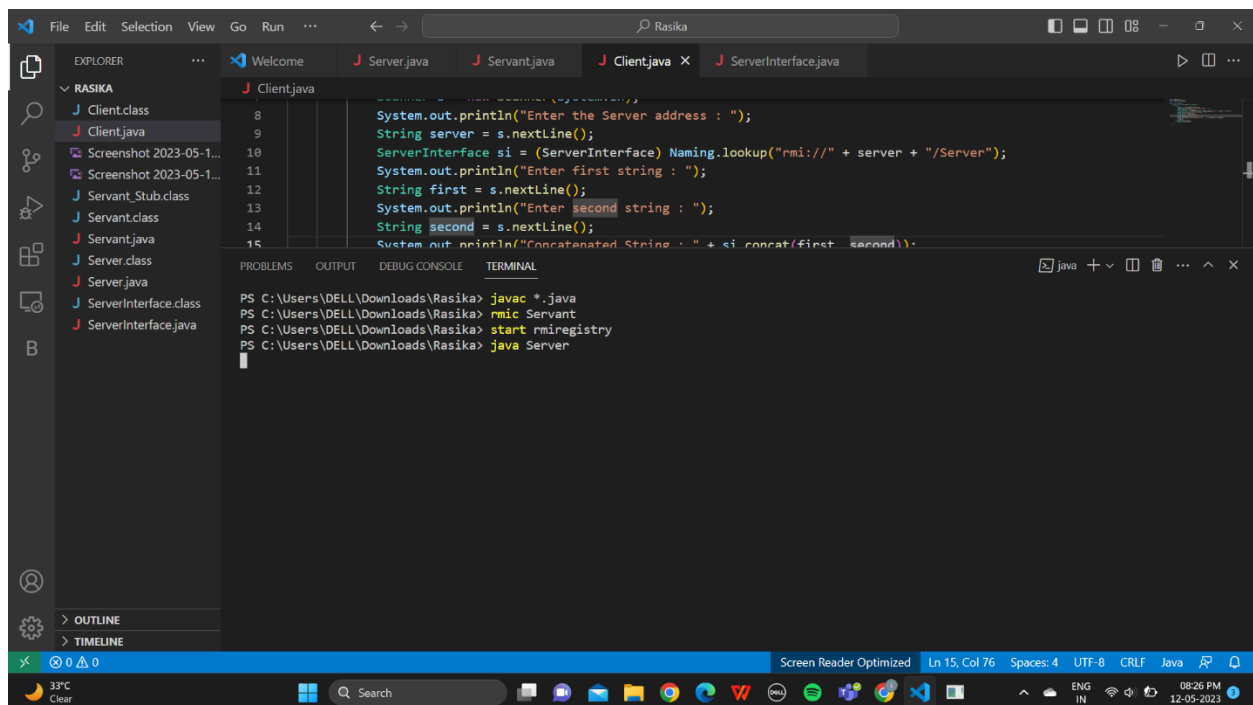
```
import java.rmi.*;
import java.net.*;

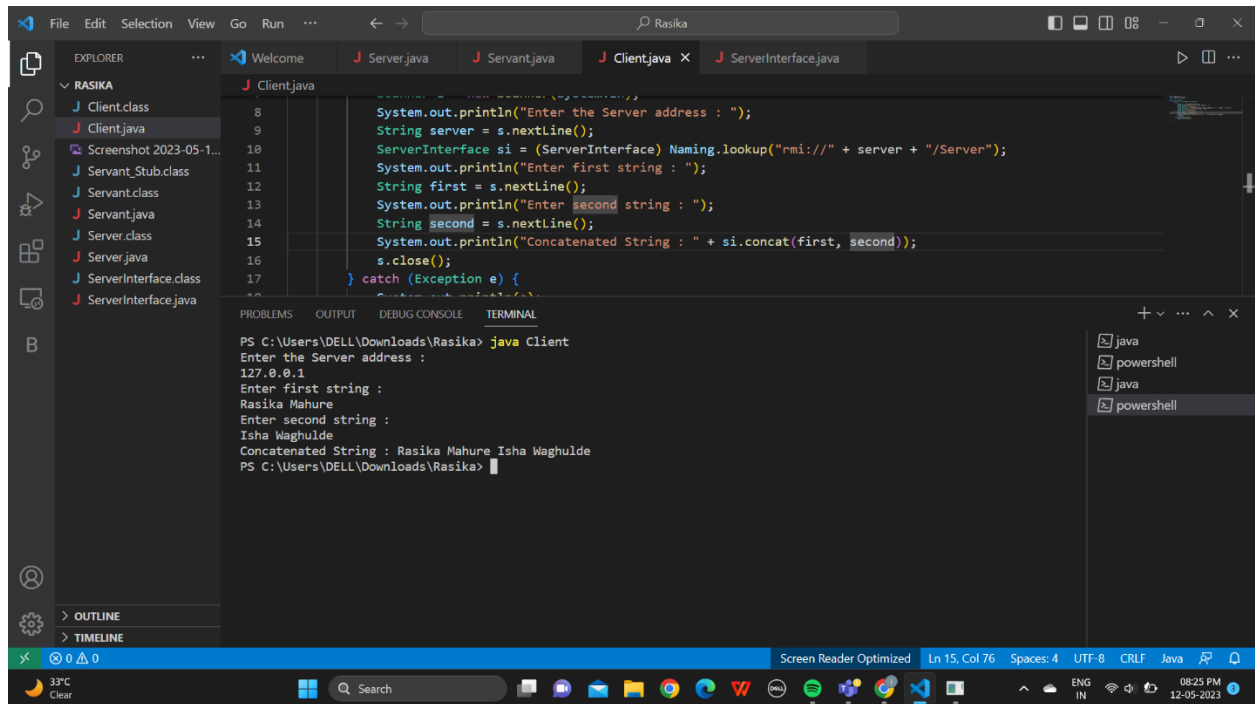
public class Server {
    public static void main(String[] args) {
        try {
            Servant s = new Servant();
            Naming.rebind("Server", s);
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

Client.java

```
import java.rmi.*;
import java.util.Scanner;

public class Client {
    public static void main(String args[]) {
        try {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter the Server address : ");
            String server = s.nextLine();
            ServerInterface si = (ServerInterface) Naming.lookup("rmi://" +
server + "/Server");
            System.out.println("Enter first string : ");
            String first = s.nextLine();
            System.out.println("Enter second string : ");
            String second = s.nextLine();
            System.out.println("Concatenated String : " + si.concat(first,
second));
            s.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```





Assignment No 2

a) For example Calc.idl

Include the following code in the idl file

```
module CalcApp
{
    interface Calc
    {
        exception DivisionByZero {};

        float sum(in float a, in float b);
        float div(in float a, in float b) raises (DivisionByZero);
        float mul(in float a, in float b);
        float sub(in float a, in float b);
    };
};
```

b) CalcClient.java

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

import CalcApp.*;
import CalcApp.CalcPackage.DivisionByZero;

import org.omg.CosNaming.*;
import org.omg.CosNaming.NamingContextPackage.*;
import org.omg.CORBA.*;
import static java.lang.System.out;

public class CalcClient {

    static Calc calcImpl;
    static BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));

    public static void main(String args[]) {
```

```

try {
    // create and initialize the ORB
    ORB orb = ORB.init(args, null);

    // get the root naming context
    org.omg.CORBA.Object objRef =
orb.resolve_initial_references("NameService");
    // Use NamingContextExt instead of NamingContext. This is
    // part of the Interoperable naming Service.
    NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

    // resolve the Object Reference in Naming
    String name = "Calc";
    calcImpl = CalcHelper.narrow(ncRef.resolve_str(name));
    System.out.println("Hello From the server");

    while (true) {
        out.println("1. Sum");
        out.println("2. Sub");
        out.println("3. Mul");
        out.println("4. Div");
        out.println("5. exit");
        out.println("--");
        out.println("choice: ");

        try {
            String opt = br.readLine();
            if (opt.equals("5")) {
                break;
            } else if (opt.equals("1")) {
                out.println("a+b= " + calcImpl.sum(getFloat("a"),
getFloat("b")));
            } else if (opt.equals("2")) {
                out.println("a-b= " + calcImpl.sub(getFloat("a"),
getFloat("b")));
            } else if (opt.equals("3")) {
                out.println("a*b= " + calcImpl.mul(getFloat("a"),
getFloat("b")));
            } else if (opt.equals("4")) {
                try {
                    out.println("a/b= " + calcImpl.div(getFloat("a"),
getFloat("b")));
                } catch (DivisionByZero de) {
                    out.println("Division by zero!!!");
                }
            }
        } catch (Exception e) {

```

```

        out.println("===");
        out.println("Error with numbers");
        out.println("===");
    }
    out.println("");

}
//calcImpl.shutdown();
} catch (Exception e) {
    System.out.println("ERROR : " + e);
    e.printStackTrace(System.out);
}
}

static float getFloat(String number) throws Exception {
    out.print(number + ": ");
    return Float.parseFloat(br.readLine());
}
}

```

c) CalcServer.java

```

import CalcApp.*;
import CalcApp.CalcPackage.DivisionByZero;

import org.omg.CosNaming.*;
import org.omg.CosNaming.NamingContextPackage.*;
import org.omg.CORBA.*;
import org.omg.PortableServer.*;

import java.util.Properties;

class CalcImpl extends CalcPOA {

    @Override
    public float sum(float a, float b) {
        return a + b;
    }

    @Override
    public float div(float a, float b) throws DivisionByZero {
        if (b == 0) {
            throw new CalcApp.CalcPackage.DivisionByZero();
        } else {
            return a / b;
        }
    }
}

```

```

    }

    @Override
    public float mul(float a, float b) {
        return a * b;
    }

    @Override
    public float sub(float a, float b) {
        return a - b;
    }
    private ORB orb;

    public void setORB(ORB orb_val) {
        orb = orb_val;
    }
}

public class CalcServer {

    public static void main(String args[]) {
        try {
            // create and initialize the ORB
            ORB orb = ORB.init(args, null);

            // get reference to rootpoa & activate the POAManager
            POA rootpoa =
POAHelper.narrow(orb.resolve_initial_references("RootPOA"));
            rootpoa.the_POAManager().activate();

            // create servant and register it with the ORB
            CalcImpl helloImpl = new CalcImpl();
            helloImpl.setORB(orb);

            // get object reference from the servant
            org.omg.CORBA.Object ref = rootpoa.servant_to_reference(helloImpl);
            Calc href = CalcHelper.narrow(ref);

            // get the root naming context
            // NameService invokes the name service
            org.omg.CORBA.Object objRef =
orb.resolve_initial_references("NameService");
            // Use NamingContextExt which is part of the Interoperable
            // Naming Service (INS) specification.
            NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

            // bind the Object Reference in Naming
            String name = "Calc";

```

```

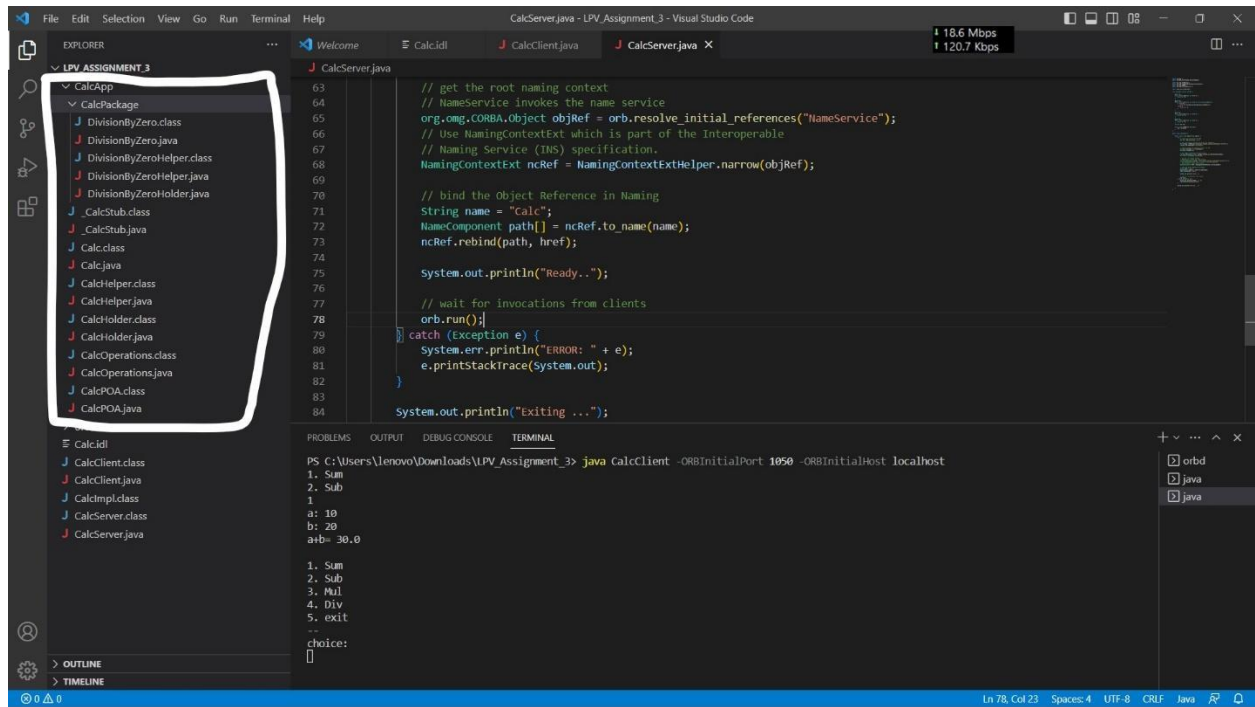
        NameComponent path[] = ncRef.to_name(name);
        ncRef.rebind(path, href);

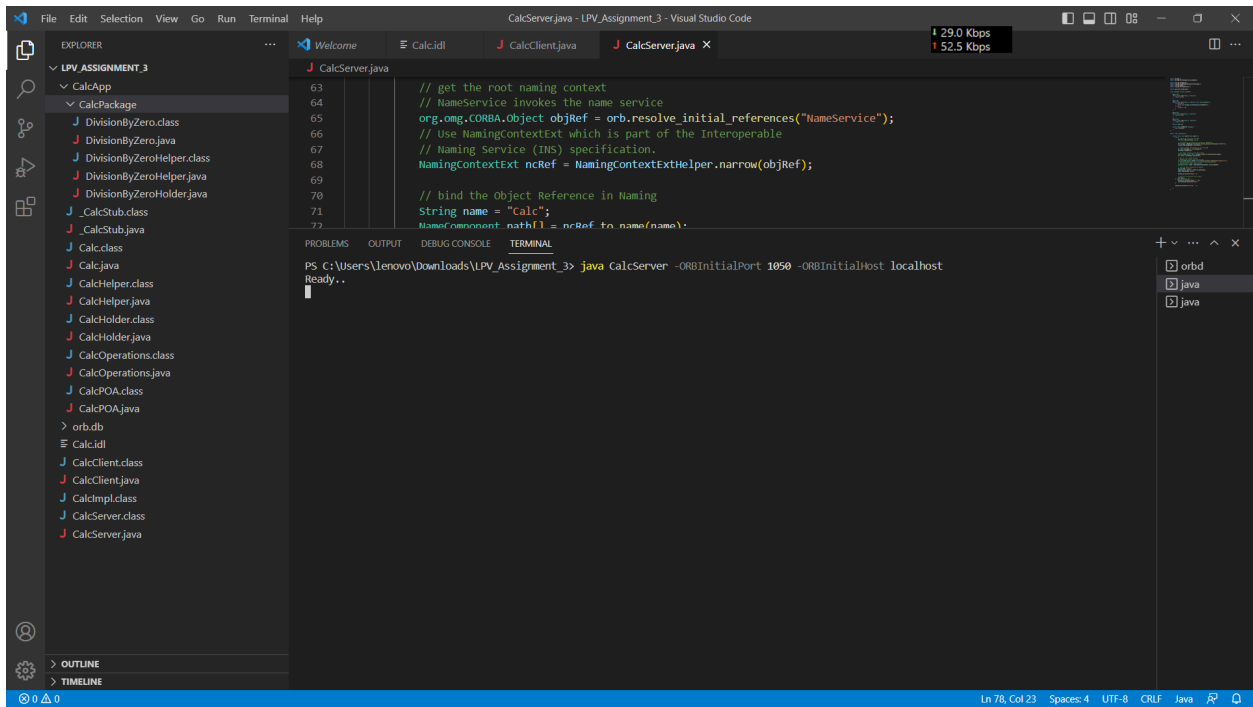
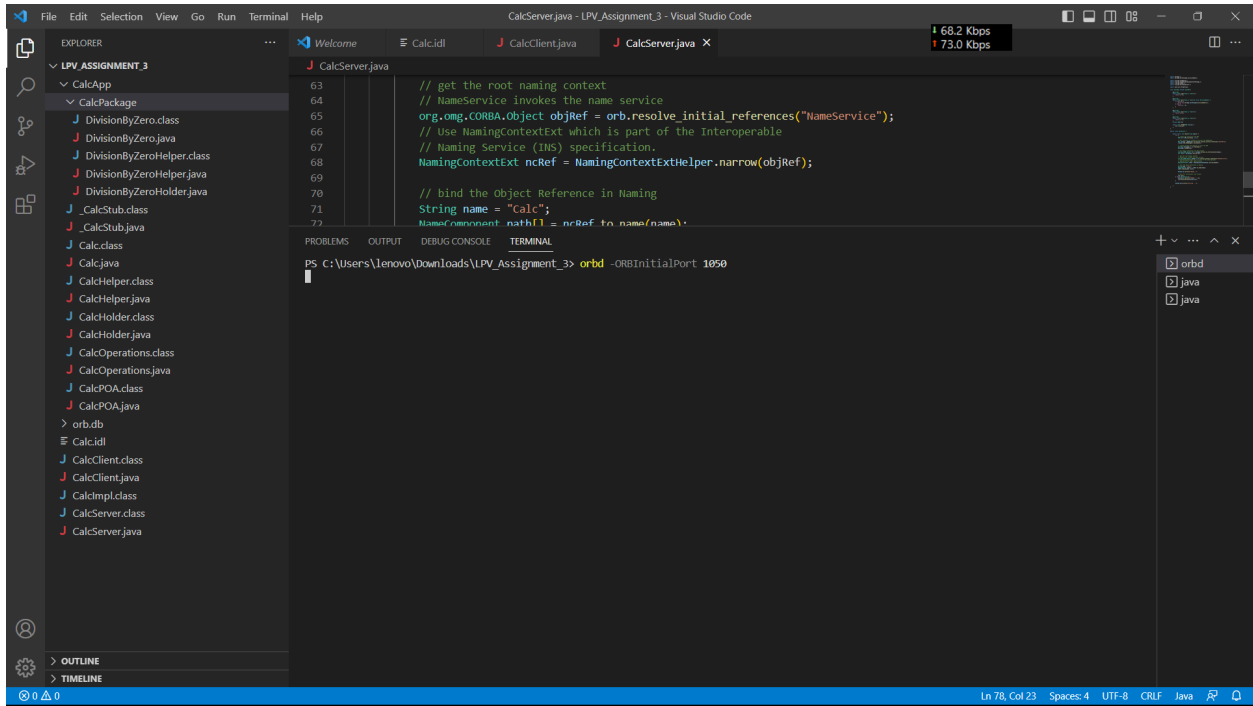
        System.out.println("Ready..");

        // wait for invocations from clients
        orb.run();
    } catch (Exception e) {
        System.err.println("ERROR: " + e);
        e.printStackTrace(System.out);
    }

    System.out.println("Exiting ...");
}
}

```





Visual Studio Code interface showing a Java project named "LPV_Assignment_3". The Explorer pane on the left lists the project structure, including packages like "CalcApp", "CalcPackage", and various classes like "DivisionByZero.class", "CalcStub.class", and "CalcServer.class". The main editor displays the source code for "CalcServer.java", which includes comments and code for getting the root naming context, resolving initial references, and binding the object reference in naming.

```
63 // get the root naming context
64 // NameService invokes the name service
65 org.omg.CORBA.Object objRef = orb.resolve_initial_references("NameService");
66 // Use NamingContextExt which is part of the Interoperable
67 // Naming Service (IIS) specification.
68 NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);
69
70 // bind the Object Reference in Naming
71 String name = "calc";
72 NameComponent nath1 = ncRef.to_name(name);
73
```

The TERMINAL pane shows the command prompt output for running the application:

```
PS C:\Users\lenovo\Downloads\LPV_Assignment_3> java calcClient -ORBInitialPort 1050 -ORBInitialHost localhost
1. Sum
2. Sub
1
a: 10
b: 20
a+b= 30.0

1. Sum
2. Sub
3. Mul
4. Div
5. exit
--
choice:
4
a: 20
b: 2
a/b= 10.0

1. Sum
2. Sub
3. Mul
4. Div
5. exit
--
choice:
5
PS C:\Users\lenovo\Downloads\LPV_Assignment_3>
```

The status bar at the bottom indicates the current position in the file: "Ln 78, Col 23", "Spaces: 4", "UTF-8", "CRLF", and "Java".

Assignment No 4

Code

```
import java.net.*;
import java.io.*;

public class BerkeleyAlgorithm {
    public static void main(String[] args) throws Exception {
        int port = 2000; // port number
        ServerSocket server = new ServerSocket(port);
        System.out.println("Server started on port " + port);

        while (true) {
            Socket client = server.accept();
            new Thread(new ClientHandler(client)).start();
        }
    }
}

class ClientHandler implements Runnable {
    private Socket client;

    public ClientHandler(Socket client) {
        this.client = client;
    }

    public void run() {
        try {
            // receive time request from client
            BufferedReader in = new BufferedReader(new
InputStreamReader(client.getInputStream()));
            String request = in.readLine();
            long requestTime = Long.parseLong(request);

            // send current time to client
            long currentTime = System.currentTimeMillis();
            PrintWriter out = new PrintWriter(client.getOutputStream(), true);
            out.println(currentTime);

            // calculate clock difference
            long clockDifference = currentTime - requestTime;

            // send clock difference to server
            Socket server = new Socket("localhost", 2000);
            PrintWriter serverOut = new PrintWriter(server.getOutputStream(),
true);
            serverOut.println(clockDifference);
        }
    }
}
```

```

        // receive average clock difference from server
        BufferedReader serverIn = new BufferedReader(new
InputStreamReader(server.getInputStream()));
        String averageClockDifference = serverIn.readLine();
        long averageDifference = Long.parseLong(averageClockDifference);

        // adjust client clock
        long adjustedTime = currentTime + averageDifference;
        System.out.println("Client adjusted time: " + adjustedTime);

        // close sockets
        server.close();
        client.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

Client

import java.net.*;
import java.io.*;

public class Client {
    public static void main(String[] args) throws Exception {
        Socket server = new Socket("localhost", 2000);

        // get current time
        long currentTime = System.currentTimeMillis();

        // send time request to server
        PrintWriter out = new PrintWriter(server.getOutputStream(), true);
        out.println(currentTime);

        // receive current time from server
        BufferedReader in = new BufferedReader(new
InputStreamReader(server.getInputStream()));
        String response = in.readLine();
        long serverTime = Long.parseLong(response);

        // calculate clock difference
        long clockDifference = serverTime - currentTime;

        // send clock difference to server
        PrintWriter serverOut = new PrintWriter(server.getOutputStream(),
true);
        serverOut.println(clockDifference);

```

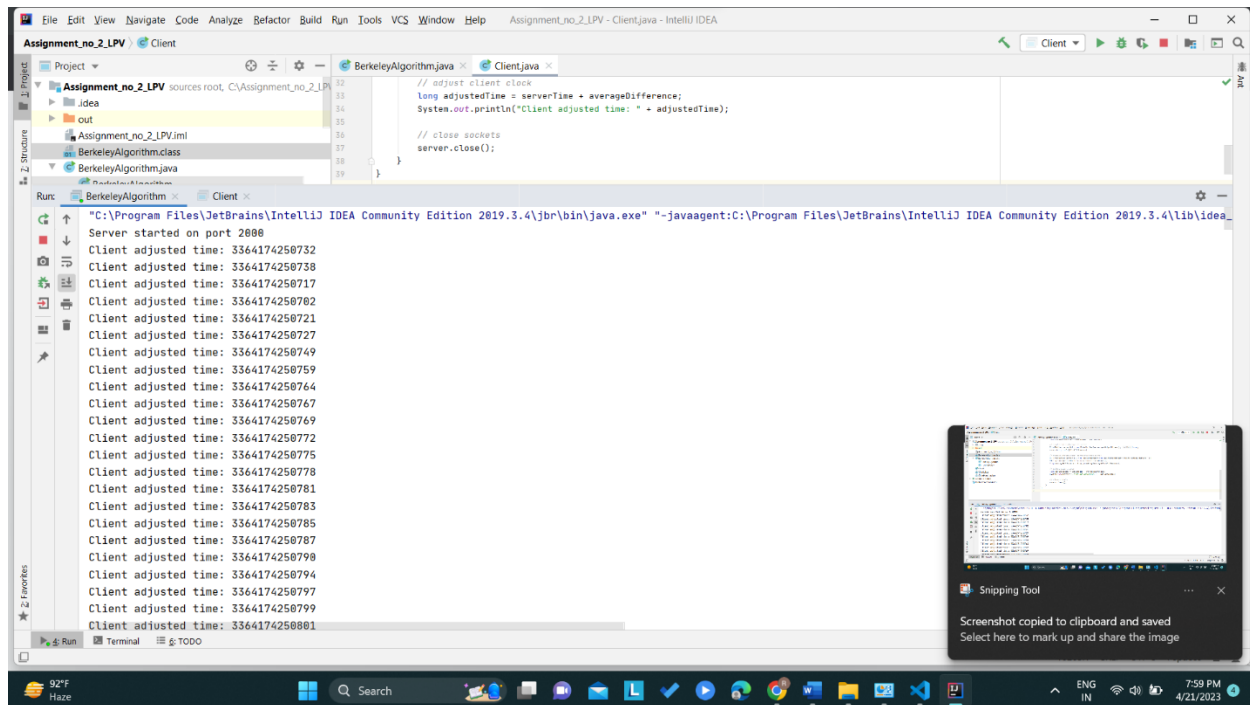
```

        // receive average clock difference from server
        BufferedReader serverIn = new BufferedReader(new
InputStreamReader(server.getInputStream()));
        String averageClockDifference = serverIn.readLine();
        long averageDifference = Long.parseLong(averageClockDifference);

        // adjust client clock
        long adjustedTime = serverTime + averageDifference;
        System.out.println("Client adjusted time: " + adjustedTime);

        // close sockets
        server.close();
    }
}

```



Assignment No 5

Code

```
import java.util.*;

public class TokenRing {
    private static final int N = 5; // Number of processes
    private static final int TOKEN = -1; // Token value
    private static final int CS_TIME = 1000; // Critical section time

    private static boolean[] hasToken = new boolean[N]; // Whether process i
has the token
    private static boolean[] inCS = new boolean[N]; // Whether process i is in
the critical section
    private static int tokenHolder = -1; // Current token holder

    private static void process(int id) throws InterruptedException {
        while (true) {
            if (hasToken[id]) {
                // Enter critical section
                inCS[id] = true;
                System.out.println("Process " + id + " entering critical
section...");
                Thread.sleep(CS_TIME);
                System.out.println("Process " + id + " exiting critical
section.");

                // Release token
                hasToken[id] = false;
                int nextId = (id + 1) % N;
                hasToken[nextId] = true;
            }
        }
    }
}
```

```

        tokenHolder = nextId;
    } else {
        // Wait for token
        Thread.sleep(100);
    }
}

}

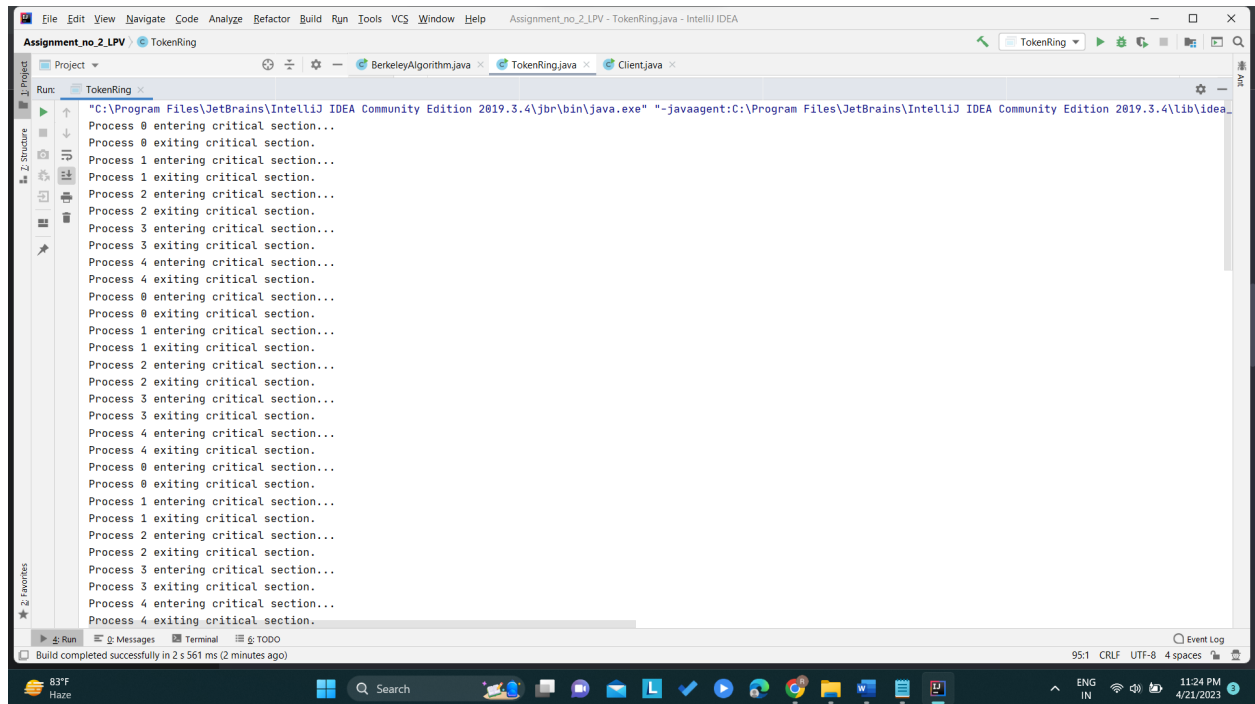
public static void main(String[] args) throws InterruptedException {
    // Initialize token holder
    hasToken[0] = true;
    tokenHolder = 0;

    // Start processes
    List<Thread> threads = new ArrayList<>();
    for (int i = 0; i < N; i++) {
        int id = i;
        Thread thread = new Thread(() → {
            try {
                process(id);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
        });
        threads.add(thread);
        thread.start();
    }

    // Wait for processes to finish
    for (Thread thread : threads) {
        thread.join();
    }
}
}

```

Output



Assignment No 6

Code

A) Bully Algorithm

```
import java.io.InputStream;
import java.io.PrintStream;
import java.util.Scanner;

public class Bully {
    static boolean[] state = new boolean[5];
    int coordinator;

    public static void up(int up) {
        if (state[up - 1]) {
            System.out.println("Process " + up + " is already up");
        } else {
            int i;
            Bully.state[up - 1] = true;
            System.out.println("Process " + up + " held election");
            for (i = up; i < 5; ++i) {
                System.out.println("Election message sent from process " + up
+ " to process " + (i + 1));
            }
            for (i = up + 1; i ≤ 5; ++i) {
                if (!state[i - 1]) continue;
                System.out.println("Alive message send from process " + i + "
to process " + up);
                break;
            }
        }
    }

    public static void down(int down) {
        if (!state[down - 1]) {
            System.out.println("Process " + down + " is already down.");
        } else {
            Bully.state[down - 1] = false;
        }
    }

    public static void mess(int mess) {
        if (state[mess - 1]) {
            if (state[4]) {
                System.out.println("OK");
            } else if (!state[4]) {
                int i;
            }
        }
    }
}
```

```

        System.out.println("Process " + mess + " election");
        for (i = mess; i < 5; ++i) {
            System.out.println("Election send from process " + mess +
" to process " + (i + 1));
        }
        for (i = 5; i ≥ mess; --i) {
            if (!state[i - 1]) continue;
            System.out.println("Coordinator message send from process
" + i + " to all");
            break;
        }
    }
} else {
    System.out.println("Process " + mess + " is down");
}
}

public static void main(String[] args) {
    int choice;
    Scanner sc = new Scanner(System.in);
    for (int i = 0; i < 5; ++i) {
        Bully.state[i] = true;
    }
    System.out.println("5 active process are:");
    System.out.println("Process up = p1 p2 p3 p4 p5");
    System.out.println("Process 5 is coordinator");
    do {
        System.out.println(".....");
        System.out.println("1) Up a process.");
        System.out.println("2) Down a process");
        System.out.println("3) Send a message");
        System.out.println("4) Exit");
        choice = sc.nextInt();
        switch (choice) {
            case 1: {
                System.out.println("Bring proces up");
                int up = sc.nextInt();
                if (up == 5) {
                    System.out.println("Process 5 is co-ordinator");
                    Bully.state[4] = true;
                    break;
                }
                Bully.up(up);
                break;
            }
            case 2: {
                System.out.println("Bring down any process.");
                int down = sc.nextInt();
                Bully.down(down);
            }
        }
    } while (true);
}

```

```

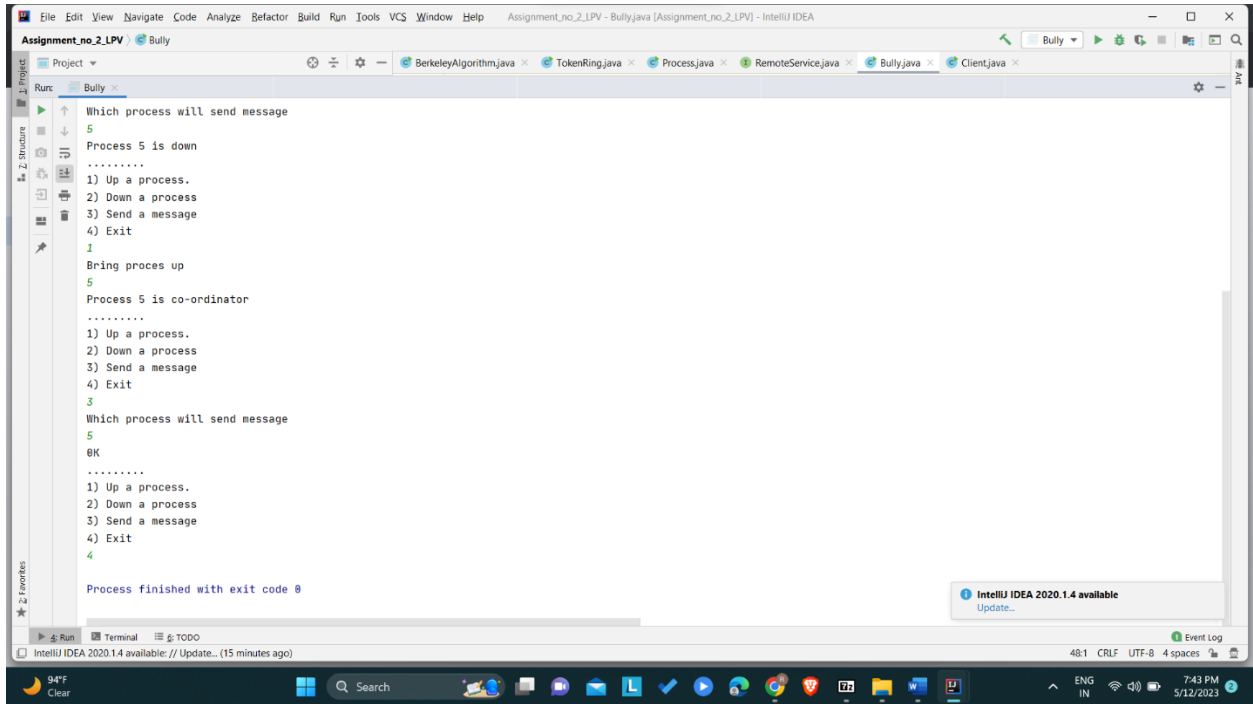
        break;
    }
    case 3: {
        System.out.println("Which process will send message");
        int mess = sc.nextInt();
        Bully.mess(mess);
    }
}
} while (choice != 4);
sc.close();
}
}

```

```

C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.4\bin\java.exe -javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.4\lib\idea_
Assignment_no_2_LPV Bully
5 active process are:
Process up = p1 p2 p3 p4 p5
Process 5 is coordinator
.....
1) Up a process.
2) Down a process
3) Send a message
4) Exit
2
Bring down any process.
5
.....
1) Up a process.
2) Down a process
3) Send a message
4) Exit
3
Which process will send message
5
Process 5 is down
.....
1) Up a process.
2) Down a process
3) Send a message
4) Exit
1
Bring proces up
5
Process 5 is co-ordinator
.....

```



B) Ring Algorithm

C) `import java.util.Scanner;`

```
public class Ring {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        int temp, i, j;
        char str[] = new char[10];
        Rr proc[] = new Rr[10];

        // object initialisation
        for (i = 0; i < proc.length; i++)
            proc[i] = new Rr();

        // scanner used for getting input from console
        Scanner in = new Scanner(System.in);
```

```

        System.out.println("Enter the number of process : ");
        int num = in.nextInt();

        // getting input from users
        for (i = 0; i < num; i++) {
            proc[i].index = i;
            System.out.println("Enter the id of process : ");
            proc[i].id = in.nextInt();
            proc[i].state = "active";
            proc[i].f = 0;
        }

        // sorting the processes from on the basis of id
        for (i = 0; i < num - 1; i++) {
            for (j = 0; j < num - 1; j++) {
                if (proc[j].id > proc[j + 1].id) {
                    temp = proc[j].id;
                    proc[j].id = proc[j + 1].id;
                    proc[j + 1].id = temp;
                }
            }
        }

        for (i = 0; i < num; i++) {
            System.out.print(" [" + i + "]" + " " + proc[i].id);
        }

        int init;
        int ch;
        int temp1;
        int temp2;
        int ch1;
        int arr[] = new int[10];

        proc[num - 1].state = "inactive";

        System.out.println("\n process " + proc[num - 1].id + "select as
co-ordinator");

        while (true) {
            System.out.println("\n 1.election 2.quit ");
            ch = in.nextInt();

            for (i = 0; i < num; i++) {

```

```

        proc[i].f = 0;
    }

    switch (ch) {
    case 1:
        System.out.println("\n Enter the Process number who
initialsied election : ");
        init = in.nextInt();
        temp2 = init;
        temp1 = init + 1;

        i = 0;

        while (temp2 != temp1) {
            if ("active".equals(proc[temp1].state) && proc[temp1].f
= 0) {

                System.out.println("\nProcess " + proc[init].id + "
send message to " + proc[temp1].id);
                proc[temp1].f = 1;
                init = temp1;
                arr[i] = proc[temp1].id;
                i++;
            }
            if (temp1 == num) {
                temp1 = 0;
            } else {
                temp1++;
            }
        }

        System.out.println("\nProcess " + proc[init].id + " send
message to " + proc[temp1].id);
        arr[i] = proc[temp1].id;
        i++;
        int max = -1;

        // finding maximum for co-ordinator selection
        for (j = 0; j < i; j++) {
            if (max < arr[j]) {
                max = arr[j];
            }
        }

        // co-ordinator is found then printing on console
        System.out.println("\n process " + max + "select as
co-ordinator");
    }
}

```

```

        for (i = 0; i < num; i++) {

            if (proc[i].id == max) {
                proc[i].state = "inactive";
            }
        }
        break;
    case 2:
        System.out.println("Program terminated ...");
        return ;
    default:
        System.out.println("\n invalid response \n");
        break;
    }

}

}

}

class Rr {

    public int index;    // to store the index of process
    public int id;       // to store id/name of process
    public int f;
    String state;        // indiactes whether active or inactive state of
node

}

```

```
"C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.4\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.4\lib\idea_rt.jar" 2631.0 2631.0 2631.0
Enter the number of process :
5
Enter the id of process :
20
Enter the id of process :
10
Enter the id of process :
30
Enter the id of process :
40
Enter the id of process :
50
[0] 10 [1] 20 [2] 30 [3] 40 [4] 50
process 50 select as co-ordinator

1.election 2.quit
1

Enter the Process number who initialisied election :
2

Process 30 send message to 40
Process 40 send message to 10
Process 10 send message to 20
Process 20 send message to 30

process 40 select as co-ordinator
```

Build completed successfully in 2 s 873 ms (a minute ago)

```
Process 30 send message to 40
Process 40 send message to 10
Process 10 send message to 20
Process 20 send message to 30

process 40 select as co-ordinator

1.election 2.quit
1

Enter the Process number who initialisied election :
1

Process 20 send message to 30
Process 30 send message to 10
Process 10 send message to 20

process 30 select as co-ordinator

1.election 2.quit
2

Program terminated ...

Process finished with exit code 0
```

Build completed successfully in 2 s 873 ms (2 minutes ago)

assignment 3

server

```
import HelloModule.Hello;

import org.omg.CosNaming.*;

import org.omg.CosNaming.NamingContextPackage.*;

import org.omg.CORBA.*;

import org.omg.PortableServer.*;

public class Server {

    public static void main(String[] args) {

        try {

            // create and initialize ORB

            org.omg.CORBA.ORB orb = org.omg.CORBA.ORB.init(args,null);

            //Getting reference of ROOTPOA

            POA rootPOA =
POAHelper.narrow(orb.resolve_initial_references("RootPOA"));

            //Activating ROOTPOA

            rootPOA.the_POAManager().activate();
```

```
//Create Object of Interface implementation which will act as servant

HelloImpl helloImpl = new HelloImpl();

//Registering the servant object reference in the rootPOA

org.omg.CORBA.Object ref = rootPOA.servant_to_reference(helloImpl);

//narrowing the ROOTPOA reference object to propertytype which in this
case is of type Hello

System.out.println("Step 1");

Hello h_ref = HelloModule>HelloHelper.narrow(ref);

//obtaining the ORB object references for initial services

System.out.println("Step 2");

org.omg.CORBA.Object objRef =
orb.resolve_initial_references("NameService");

//Afaain narrowing the ORB object reference to NamingContext type to
bin it with server

System.out.println("Step 3");

NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

//passing path and the servant object to the naming service, binding
the servant object to the "Hello"

System.out.println("Step 4");
```

```

        String name = "Hello";

        NameComponent path[] = ncRef.to_name(name);

        ncRef.rebind(path,h_ref);

        //Enbaling ORB to run on main thread and waiting till invocation
        comes for ORB. Since it is in main method after invocation it will wait again

        System.out.println("Server Ready....");

        orb.run();

    } catch (Exception e) {

        System.out.println(e);

    }

}
}

```

client

```

import HelloModule.*;

import org.omg.CosNaming.*;

import org.omg.CosNaming.NamingContextPackage.*;

import org.omg.CORBA.*;

import org.omg.CORBA.ORB.*;

import java.util.Scanner;

```

```
public class Client {

    public static void main(String[] args) {

        Hello HelloImpl = null;

        try {

            // create and initialize ORB

            org.omg.CORBA.ORB orb = org.omg.CORBA.ORB.init(args,null);

            //obtaining the ORB object references for initial services

            org.omg.CORBA.Object objRef =
orb.resolve_initial_references("NameService");

            //Naming ContextExt contains set of name bindings of Interoperable
Naming services

            NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

            //We have binded the name Hello from server so using same name for
lookup

            String name = "Hello";

            //Getting reference of server name hello and then we are narrowing it
down to Hello type
```

```

        HelloImpl = HelloHelper.narrow(ncRef.resolve_str(name));

        //Taking user Input

        System.out.println("Enter your name: ");

        Scanner sc = new Scanner(System.in);

        String userName = sc.nextLine();

        //Invoking the print_hello

        System.out.println>HelloImpl.print_hello(userName));

    } catch (Exception e) {

        System.out.println(e);

    }

}
}
}

```

```

import HelloModule>HelloPOA;

class HelloImpl extends HelloPOA{

    HelloImpl()

    {

```

```

        super();

        System.out.println("Ready");

    }

    public String print_hello(String s)

    {

        return("Hello "+s);
    }
}

```

output:

```

linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA - HELLO
HELLO$ java Client -ORBInitialPort 1050 -ORBInitialHost localhost
Enter your name:
Pritam
Hello Pritam
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
0$ LLLO

linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA - HELLO
HELLO$ idlj -fall HelloModule.idl
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
HELLO$ javac *.java HelloModule/*.java
Note: HelloModule/HelloPOA.java uses unchecked or unsafe operat
ions.
Note: Recompile with -Xlint:unchecked for details.
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
HELLO$ orbd -ORBInitialPort 1050&
[1] 9477
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
HELLO$ java Server -ORBInitialPort 1050 -ORBInitialHost localh
ost&
[2] 9497
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
HELLO$ Ready
Step 1
Step 2
Step 3
Step 4
Server Ready...
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
linux@sarthak:~/Documents/JAVA prog A/CL-9/Assignment 3/CORBA -
0$ LLLO

```

