**RPC mechanism**

**Client**

import java.io.\*;

import java.net.\*;

class cli {

public static void main(String[] args) throws Exception {

Socket sock = new Socket("127.0.0.1", 3000);

BufferedReader keyRead = new BufferedReader(new InputStreamReader(System.in));

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new InputStreamReader(istream));

System.out.println("Client ready, type and press Enter key");

String receiveMessage, sendMessage, temp;

while (true) {

System.out.println("\nEnter operation to perform(add,sub,mul,div)....");

temp = keyRead.readLine();

sendMessage = temp.toLowerCase();

pwrite.println(sendMessage);

System.out.println("Enter first parameter :");

sendMessage = keyRead.readLine();

pwrite.println(sendMessage);

System.out.println("Enter second parameter : ");

sendMessage = keyRead.readLine();

pwrite.println(sendMessage);

System.out.flush();

if ((receiveMessage = receiveRead.readLine()) != null) {

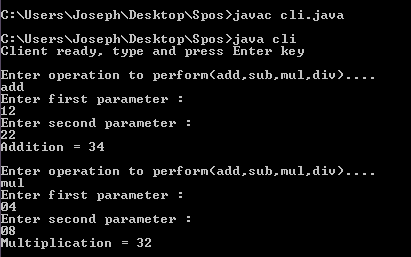
System.out.println(receiveMessage);

}

}

}

}



**Server**

import java.io.\*;

import java.net.\*;

class ser {

public static void main(String[] args) throws Exception {

ServerSocket sersock = new ServerSocket(3000);

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

Socket sock = sersock.accept();

BufferedReader keyRead = new BufferedReader(new InputStreamReader(System.in));

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new InputStreamReader(istream));

String receiveMessage, sendMessage, fun;

int a, b, c;

while (true) {

fun = receiveRead.readLine();

if (fun != null) {

System.out.println("Operation : " + fun);

}

a = Integer.parseInt(receiveRead.readLine());

System.out.println("Parameter 1 : " + a);

b = Integer.parseInt(receiveRead.readLine());

if (fun.compareTo("add") == 0) {

c = a + b;

System.out.println("Addition = " + c);

pwrite.println("Addition = " + c);

}

if (fun.compareTo("sub") == 0) {

c = a - b;

System.out.println("Substraction = " + c);

pwrite.println("Substraction = " + c);

}

if (fun.compareTo("mul") == 0) {

c = a \* b;

System.out.println("Multiplication = " + c);

pwrite.println("Multiplication = " + c);

}

if (fun.compareTo("div") == 0) {

c = a / b;

System.out.println("Division = " + c);

pwrite.println("Division = " + c);

}

System.out.flush();

}

}

}

