**/\*TE CMPN A-27\*/**

**Expt : 6**

**Server:**

import java.io.\*;

import java.net.\*;

public class MultiMathServer

{

int count=0;

public static void main(String arg[]) throws Exception

{

MultiMathServer ms=new MultiMathServer();

ms.run();

}

public void run() throws Exception

{

ServerSocket srvsocket=null;

srvsocket=new ServerSocket(9000);

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

while(true)

{

Socket s=srvsocket.accept();

new Thread(new mt(s,++count)).start();

}

}

}

class mt implements Runnable

{

Socket cs;

int n,a,b,res,count;

PrintStream ps;

mt(Socket s,int count)

{

cs=s;

this.count=count;

}

public void run()

{

try

{

ps=new PrintStream(cs.getOutputStream());

BufferedReader br=new BufferedReader(new InputStreamReader(cs.getInputStream()));

ps.println("Enter your choice: 1. Addition 2. Subtraction 3. Multiplication 4. Division");

n=Integer.parseInt(br.readLine());

ps.println("Enter two numbers:");

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

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

}

catch(Exception e){}

switch(n)

{

case 1:

ps.println("Result: "+ a+" + "+b+" = "+(a+b));

System.out.println("Client no:"+ count);

break;

case 2:

ps.println("Result: "+ a+" - "+b+" = "+(a-b));

System.out.println("Client no:"+ count);

break;

case 3:

ps.println("Result: "+ a+" \* "+b+" = "+(a\*b));

System.out.println("Client no:"+ count);

break;

case 4:

ps.println("Result: "+ a+" / "+b+" = "+(a/b));

System.out.println("Client no:"+ count);

break;

default:

ps.println("Wrong inputs!");

break;

}

}

}

**Client:**

import java.io.\*;

import java.net.\*;

import java.util.\*;

public class MathClient1

{

public static void main(String arg[]) throws Exception

{

MathClient1 mc=new MathClient1 ();

mc.run();

}

public void run() throws Exception

{

Socket s=new Socket("localhost", 9000);

BufferedReader br=new BufferedReader(new InputStreamReader(s.getInputStream()));

PrintStream ps=new PrintStream(s.getOutputStream());

Scanner sc=new Scanner(System.in);

String menu=br.readLine();

System.out.println(menu);

int n=sc.nextInt();

ps.println(n);

String msg=br.readLine();

System.out.println(msg);

int a=sc.nextInt();

int b=sc.nextInt();

ps.println(a);

ps.println(b);

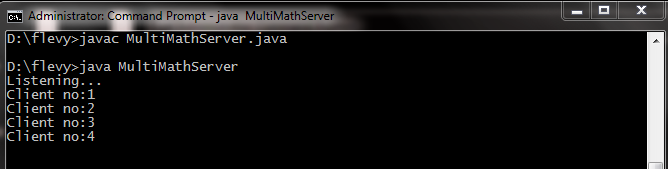
String res=br.readLine();

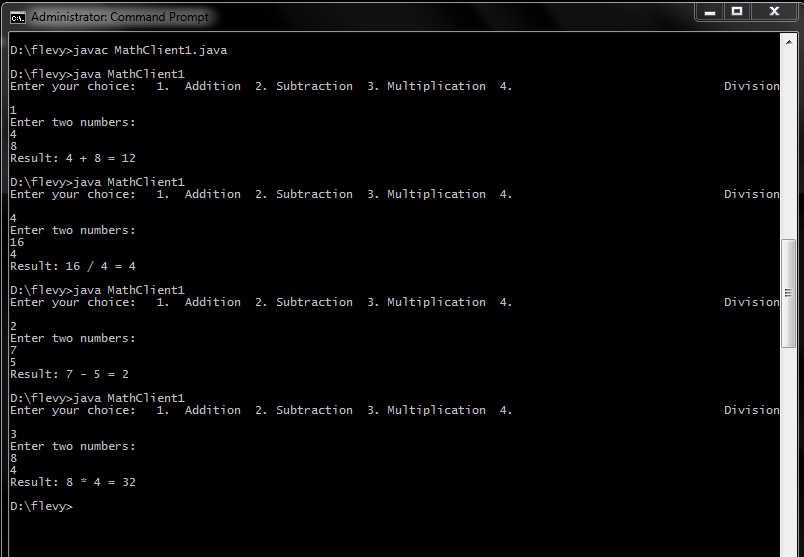
System.out.println(res);

}

}

/\*output:



\*/