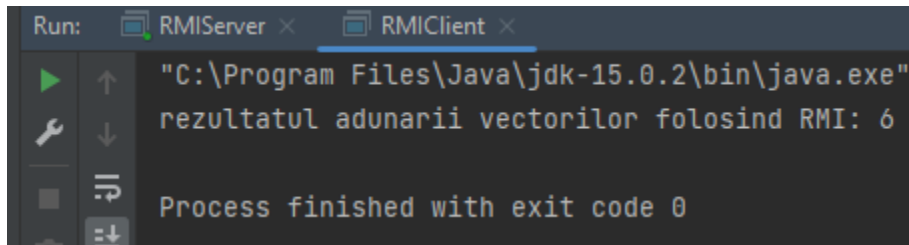
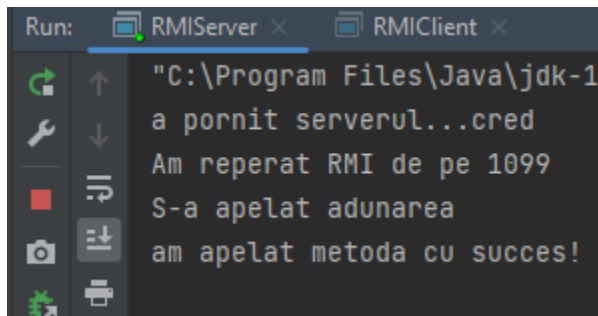


# Tema 5



```
Run: RMI Server x RMI Client x
"C:\Program Files\Java\jdk-15.0.2\bin\java.exe"
rezultatul adunarii vectorilor folosind RMI: 6
Process finished with exit code 0
```



```
Run: RMI Server x RMI Client x
"C:\Program Files\Java\jdk-15.0.2\bin\java.exe"
a pornit serverul...cred
Am reperat RMI de pe 1099
S-a apelat adunarea
am apelat metoda cu succes!
```

Am reusit sa fac un RMI care trimite rezultatul adunarii elementelor dintr-un vector.

Am creat o interfata in care am creat metoda de adunare si o clasa server care creaza un registru de obiecte ce sunt apelate de pe client pentru a afisa rezultatul adunarii.

## INTERFATA

```
package org.example;

import java.rmi.Remote;
import java.rmi.RemoteException;

public interface Adunare extends Remote {
    int addNumbers(int a[]) throws RemoteException;
}
```

## CLIENT

```
package org.example;

import java.rmi.Naming;

public class RMIClient {
```

```

static int rez = 0;
static Adunare adunare = null;

public static void main(String args[]) {

    try {
        int a[] = {1, 2, 3};
        adunare = (Adunare) Naming.lookup("//" + "localhost" + "/add");
        rez = adunare.addNumbers(a);
        System.out.println("rezultatul adunarii vectorilor folosind RMI:
" + rez);
    } catch (Exception e) {
        System.out.println("eroarea zice: " + e.getMessage());
    }
}
}

```

## SERVER

```

package org.example;

import java.rmi.Naming;
import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.server.UnicastRemoteObject;

public class RMIServer extends UnicastRemoteObject implements Adunare {

    protected RMIServer() throws RemoteException {
        super(0);
    }

    public int addNumbers(int[] a) {
        System.out.println("am apelat metoda cu succes!");
        int rez = 0;
        for (int i = 0; i < a.length; i++) {
            rez += a[i];
        }
        return rez;
    }

    public static void main(String args[]) throws Exception {
        System.setProperty("java.rmi.server.hostname", "localhost");
        System.out.println("a pornit serverul...cred");
        try {
            int port = 1099;
            LocateRegistry.createRegistry(port);
            System.out.println("Am reperat RMI de pe " + port);
        } catch (Exception e) {
            System.out.println("eroarea de la sserver: " + e.getMessage());
        }
    }
}

```

```
RMIServer rmiServer = new RMIServer();  
Naming.rebind("add", rmiServer);  
System.out.println("S-a apelat adunarea");  
}  
}
```