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Screenshots of the Lab task 1^a where I have build a client server remote procedural call application. Screenshots are below,

```

import java.util.*;
import java.text.*;
import java.net.*;

public class MyData {

    static void info() {
        SimpleDateFormat dtf = DateFormatter.ofPattern("yyyy/MM/dd HH:mm:ss");
        LocalDateTime now = LocalDateTime.now();
        System.out.println(dtf.format(now));
        System.out.println("Md Shahadat Hossen Nayem 268921");
        String windowsUser = System.getProperty("user.name");
        System.out.println(windowsUser);
        System.out.println(System.getProperty("os.name"));
        System.out.println(System.getProperty("java.runtime.version"));
    }

    InetAddress ip;

    try {
        ip = InetAddress.getLocalHost();
        System.out.println("IP address : " + ip);
    } catch (UnknownHostException e) {
        e.printStackTrace();
    }
}

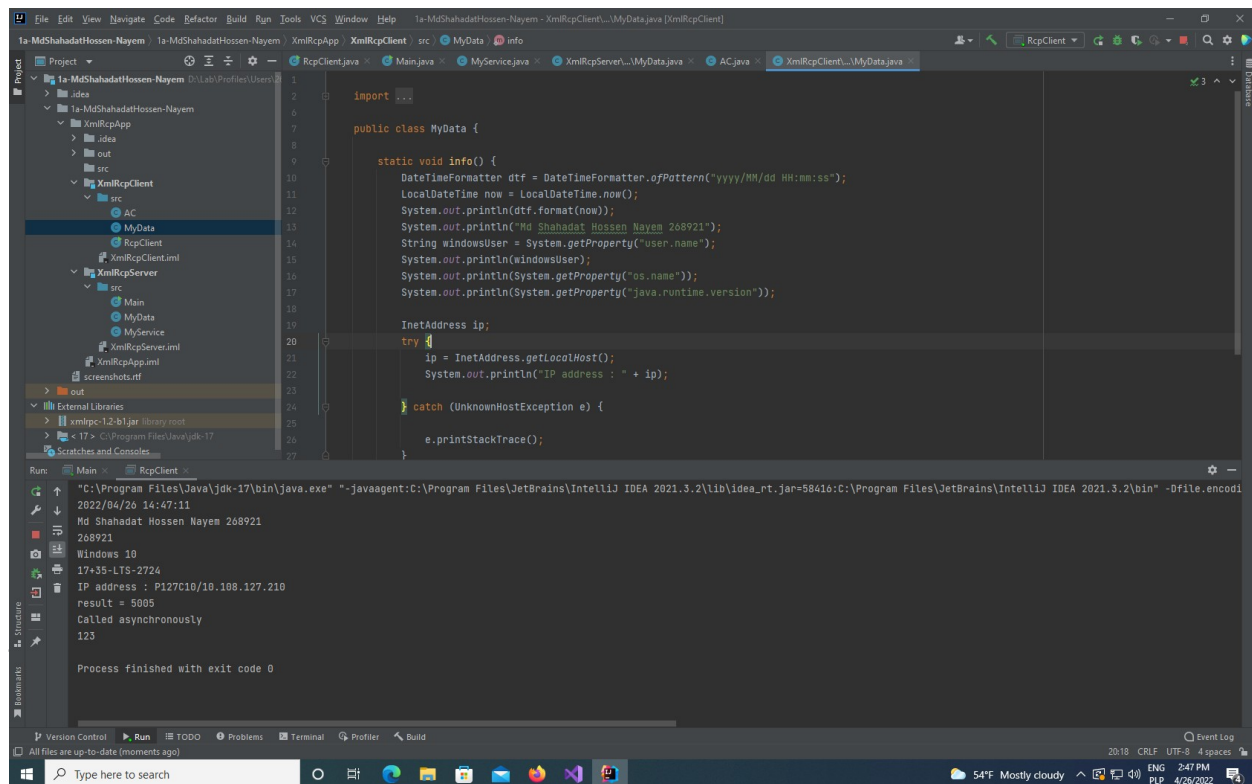
```

Run: Main, RcpClient

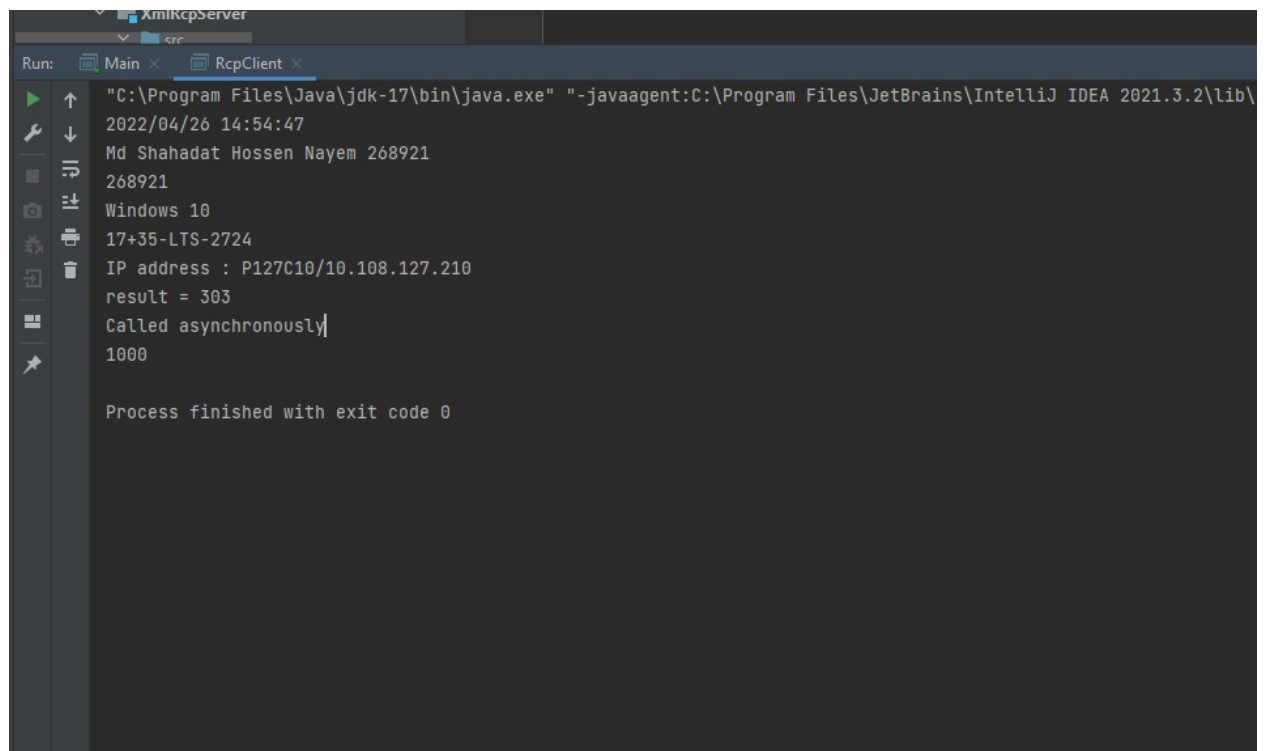
```

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.2\lib\idea_rt.jar=58399:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.2\bin" -Dfile.encoding=UTF-8
1
303
2022/04/26 14:46:16
Md Shahadat Hossen Nayem 268921
268921
Windows 10
17+35-LTS-2724
IP address : P127C10/10.108.127.210
Starting XML-RPC server...
Server started successfully.
Listening on port: 10013
Press <ENTER> to stop the server.

```



There is below my representation of output that I got from RcpClient runned after the MyService main method. Right after we get the result which is “123”, program finishes. Because, both the services runs asynchronously.



```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.2\lib\
2022/04/26 14:54:47
Md Shahadat Hossen Nayem 268921
268921
Windows 10
17+35-LTS-2724
IP address : P127C10/10.108.127.210
result = 303
Called asynchronously
1000

Process finished with exit code 0
```

```
Run: Main x RcpClient x
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\JetB
1
303
2022/04/26 14:54:44
Md Shahadat Hossen Nayem 268921
268921
Windows 10
17+35-LTS-2724
IP address : P127C10/10.108.127.210
Starting XML-RPC server...
Server started successfully.
Listening on port: 10013
Press <ENTER> to stop the server.
1
...asyProc called - processing
... asyProc - finished
|
```