Task 4 RPC

Deliverable 1 – Testing what happens when you input 1 and 2 to the client console

1-red outline

2-blue outline

```
Please choose an option:
1. send ping
2. say hello
3. send file
4. list all files
5. delete file
1
Ping response: pong

Please choose an option:
1. send ping
2. say hello
3. send file
4. list all files
5. delete file
2
sayHello response: hello john
```

Deliverable 2 - Capture the output of your client and sever console after sending the MP3, and add it to your document.

```
5. delete file
iaHR0cDovL2xvY2FsaG9zdDo1MDAwLyIsIGpzb249cmVxdWVzdCgic2F2ZU5ld0ZpbGUiLC
Bw/XJhbXM9eyJK/XRhIjogZW5jb2RlZENvbnRlbnR9KSkNCiAgICBw/XJzZWQgP5Bw/XJzZ
ShyZXMwb25zZS5qc29uKCkpDQogICAgcHJpbnQoInNlbmRGaWxlIHJlc3BvbnNl0iIsIHBh
                                                                                               What is the filename to send?
                                                                                               c.py
Encoded file snippet: ZnJvbSBqc29ucnBjY2xpZW50IGltcG9ydCByZXF1
nNlZC5yZXN1bHQpDQoNCmRlZiBhc2tGb3JMaXN0KCk6DQogICAgcmVzcG9uc2UgPSByZXF
1ZXN0cy5wb3N0KCJodHRw0i8vbG9jYWxob3N00jUwMDAvIiwganNvbj1yZXF1ZXN0KCJsaX
                                                                                               ZXNOLCBwYXJzZQ0KaW1w ...
NOQNXsIikpDQogICAgcGFyc2VkID0gcGFyc2UocmVzcG9uc2UuanNvbigpKQ0KICAgIHBya
W50KCJEaXJlY3RvcnkgbGlzdGluZyBvbiBzZXJ2ZXI6IikNCiAgICBwcmludChwYXJzZWQu
                                                                                               sendFile response: saved
cmVzdWx0KQ0KDQpkZWYgZGVsZXRlRmlsZSgpOg0KICAgIHByaW50KCJFbnRlciB0aGUgZml
                                                                                               Please choose an option:
sZW5hbWUgdG8gZGVsZXR10iIpDQogICAgZmlsZV90b19kZWxldGUgPSBpbnB1dCgpDQogIC

    send ping

AgcmVzcG9ucZUgPSByZXF1ZXN0cySwb3N0KCJodHRw018VbG9jYWXob5N00jUwMDAVIiwga
nNvbj1yZXF1ZXN0KCJkZwxldGVTaW5nbGVGaWxlIiwgcGFyYW1zPXsiZmlsZW5hbWUiOiBm
aWxlX3RvX2RlbGV0ZX0pKQ0KICAgTHBhcnNlZCA9IHBhcnNlKHJlc3BvbnNlLmpzb24oKSk

    say hello
    send file

                                                                                                4. list all files
NCiAgICBwcmludCgiZGVsZXR1RmlsZSByZXNwb25zZToiLCBwYXJzZWQucmVzdwx0KQ0KDQ
                                                                                                   delete file
ojIEJhc2ljIG1lbnUgc3lzdGVtDQpwcmludCgiV2VsY29tZSEiKQ0Kd2hpbGUgVHJ1ZToNC
iAgICBwcmludCgiXG5QbGVhc2UgY2hvb3NlIGFuIG9wdGlvbjoiKQ0KICAgIHByaW50KCIx
                                                                                               What is the filename to send?
LiBzZW5kIHBpbmciKQ0KICAgIHByaW50KCIyLiBzYXkgaGVsbG8iKQ0KICAgIHByaW50KCI
zLiBzZW5kIGZpbGUiKQ0KICAgIHByaW50KCİ0LiBsaXN0IGFsbCBmaWxlcyİpDQogICAgcH
                                                                                                Encoded file snippet: ZnJvbSBqc29ucnBjY2xpZW50IGltcG9ydCByZXF1
                                                                                               ZXNOLCBwYXJzZQ0KaW1w ...
JpbnQoIjUuIGRlbGV0ZSBmaWxlIikNCiAgICBvcHRpb24gPSBpbnQoaW5wdXQoKSkNCg0KI
CAgTGInTG9wdG1vbiA9P5AxOg0KTCAgTCAgTCBzZN5kUG1uZygpDQogTCAgZNxpZiBvcHRp
b24gPT0gMjoNCiAgTCAgTCAgC2F55GVsbG8oImpvaG4iKQ0KTCAgTGVsaMYgb3B0aM9uID0
                                                                                                sendFile response: saved
9IDM6DQogICAgICAgIHByaW50KCJXaGF0IGlzIHRoZSBmaWxlbmFtZSB0byBzZW5kPyIpDQ
                                                                                               Please choose an option:
ogICAgTCAgTGZpbGVuVW111D0gaW5wdXQoKQ0KICAgICAgICBzZW5kRmlsZShmawX1bmFtZ
SkNCiAgICBlbGlmIG9wdGlvbiA9PSA00g0KICAgICAgICBhc2tGb3JMaXN0KCkNCiAgICBl

    send ping

                                                                                                2. say hello
bGlmIG9wdGlvbiA9PSA10g0KICAgICAgICBkZWxldGVGaWxlKCkNCiAgICBlbHNl0g0KICA
                                                                                                   send file
gICAgICBwcmludCgiSW52YWxpZCBvcHRpb24iKQ0K
                                                                                                   list all files
127.0.0.1 - - [04/Mar/2025 12:02:58] "POST / HTTP/1.1" 200 -
                                                                                                   delete file
```

Deliverable 3 - Capture the output of your client and server console after calling option 4 showing a list of files on the server.

```
pgICAgICAgIGZpbGVuYW11ID0gaW5wdXQoKQ0KICAgICAgICBzZW5kRm1sZShmaWx1bmFtZ
                                                                            Please choose an option:
kNCiAgICBlbGlmIG9wdGlvbiA9PSA0Og0KICAgICAgICBhc2tGb3JMaXN0KCkNCiAgICBl

    send ping

pgICAgICAgIGZpbGVuYW11ID0gaW5wdXQoKQ0KICAgICAgICBzZW5kRmlsZShmaWxlbmFtZ
                                                                            Please choose an option:
kNCiAgICBlbGlmIG9wdGlvbiA9PSA0Og0KICAgICAgICBhc2tGb3JMaXN0KCkNCiAgICBl
                                                                            1. send ping
kNCiAgICBlbGlmIG9wdGlvbiA9PSA0Og0KICAgICAgICBhc2tGb3JMaXN0KCkNCiAgICBl
                                                                            1. send ping
oGlmIG9wdGlvbiA9PSA1Og0KICAgICAgICBkZWxldGVGaWxlKCkNCiAgICBlbHNlOg0KICA
                                                                            2. say hello
;ICAgICBwcmludCgiSW52YWxpZCBvcHRpb24iKQ0K
                                                                            3. send file
27.0.0.1 - - [04/Mar/2025 12:02:58] "POST / HTTP/1.1" 200 -
                                                                            4. list all files
27.0.0.1 - - [04/Mar/2025 12:04:57] "POST / HTTP/1.1" 200 -
                                                                            5. delete file
27.0.0.1 - - [04/Mar/2025 12:05:27] "POST / HTTP/1.1" 200 -
                                                                            Directory listing on server:
                                                                            1-saved.mp3
                                                                            с.ру
                                                                            s.py
```

Deliverable 4 - Capture the output of your client and server console after calling option 5 and deleting the file on the server.

In the dark green section you can see that the file 1-saved.mp3 doesn't exist anymore meaning the deletion was successful

