RPC USING PYTHON

xmlrpc

XML-RPC is a Remote Procedure Call method that uses XML passed via HTTP as a transport. With it, a client can call methods with parameters on a remote server (the server is named by a URI) and get back structured data.

SERVER SIDE

Imports

from xmlrpc.server import SimpleXMLRPCServer

Define remote function

```
def sum_of_two(x,y):
    return x + y
```

Initialize server @ ip:port

```
# initialize the server at localhost and port 8888
server = SimpleXMLRPCServer(('localhost', 8888))
```

Register a function

```
server.register_function(sum_of_two, "sum")
```

Wait for calls

server.serve_forever()

CLIENT SIDE

Imports

from xmlrpc.client import ServerProxy

Initialize server

```
server = ServerProxy("http://127.0.0.1:8888")
```

Call method from server

server_output = server.sum(x,y)

Use our results

print(f'The sum of {x} and {y} is {server_output}')

DEMO

Output

```
python3 rpc_server.py
Listening for Client
127.0.0.1 - - [11/Dec/2022 18:35:09] "POST /RPC2 HTTP/
1.1" 200 -
```

 Code for this presentation can be found at

https://github.com/ahmad1284/rpccodez

For more resources on xmlrpc

https://docs.python.org/3/library/xmlrpc.html