

EX.NO:11C

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REMOTE PROCEDURE CALL FOR SORTING ARRAY OF ELEMENTS - XML RPC

AIM:

To implement remote procedure call for Sorting Array of Elements

PROGRAM:

server.py

```
from xmlrpc.server import SimpleXMLRPCServer
def sort_array(array):
    return sorted(array)
server = SimpleXMLRPCServer(("localhost", 8000))
print("XML-RPC server running on port 8000...")
server.register_function(sort_array, "sort_array")
server.serve_forever()
```

client.py

```
import xmlrpc.client
proxy = xmlrpc.client.ServerProxy("http://localhost:8000/")
user_input = input("Enter a list of integers separated by spaces: ")
array = []
for item in user_input.split():
    array.append(int(item))
sorted_array = proxy.sort_array(array)
print("Sorted array:", sorted_array)
```

OUTPUT:

```
PS D:\cn> python client.py
Enter a list of integers separated by spaces: 45 6 5 32 8
Sorted array: [5, 6, 8, 32, 45]
PS D:\cn> |
```

```
D:\cn>python server.py
XML-RPC server running on port 8000...
127.0.0.1 -- [09/Nov/2024 11:34:52] "POST / HTTP/1.1" 200 -
|
```

RESULT:

Hence, REMOTE PROCEDURE CALL FOR SORTING ARRAY OF ELEMENTS XML
RPC has been executed