NAME:SIVARANGINI.Y

ROLL NO:231901051

EXP NO:11D

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REMOTE PROCEDURE CALL FOR SORTING AN ARRAY-XMLRPC

Aim:

To Implement an XML RPC code for sorting array

Code:

Server code:

```
from xmlrpc.server import SimpleXMLRPCServer def sort_array(arr):
    return sorted(arr)
server = SimpleXMLRPCServer(("localhost", 8000))
print("Listening on port 8000...")
server.register_function(sort_array, "sort_array")
server.serve forever()
```

```
from xmlrpc.server import SimpleXMLRPCServer
def sort_array(arr): 1usage
    return sorted(arr)
server = SimpleXMLRPCServer(("localhost", 8000))
print("Listening on port 8000...")
server.register_function(sort_array, name: "sort_array")
server.serve_forever()
```

Client code:

```
import xmlrpc.client
proxy = xmlrpc.client.ServerProxy("http://localhost:8000/")
arr = []
```

```
print("Enter elements to sort (type -1 to end):")
while True:
    element = int(input())
    if element == -1:
        break
    arr.append(element)
sorted_array = proxy.sort_array(arr)
print("Original Array:", arr)
print("Sorted Array:", sorted_array)
```

```
import xmlrpc.client
proxy = xmlrpc.client.ServerProxy("http://localhost:8000/")
arr = []
print("Enter elements to sort (type -1 to end):")
while True:
    element = int(input())
    if element == -1:
        break
    arr.append(element)
sorted_array = proxy.sort_array(arr)

print("Original Array:", arr)
print("Sorted Array:", sorted_array)
```

Output:

For server:

For client:

```
Enter elements to sort (type -1 to end):

34

7

9

8

15

-1

priginal Array: [34, 7, 9, 8, 15]

Sorted Array: [7, 8, 9, 15, 34]

Process finished with exit code 0
```

Result:

An array is created and sorted using XMLRPC.