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Ex No : 11 C Date :7/11/2024 REMOTE PROCEDURE CALL FOR LIST OPERATIONS- XMLRPC

AIM:

To Implement an XML RPC code for the following functions, a. No of

items in a list

- b. Smallest element in a list
- c. Largest element in the list
- d. Converting a list to a set.

Program

Server Side:

```
from xmlrpc.server import SimpleXMLRPCServer
def list_length(a):
return len(a)
def list_maximum(a):
return max(a)
def list_minimum(a):
return min(a)
def list_to_set(a):
f=list(set(a))
return f
def list_concate(a,b):
return a+b
server = SimpleXMLRPCServer(("localhost", 8000))
print("Listening on port 8000...")
server.register_function(list_length,"list_length")
server.register_function(list_maximum, "list_maximum")
server.register_function(list_minimum, "list_minimum")
server.register_function(list_to_set, "list_to_set")
server.register_function(list_concate, "list_concate")
server.serve_forever()
```

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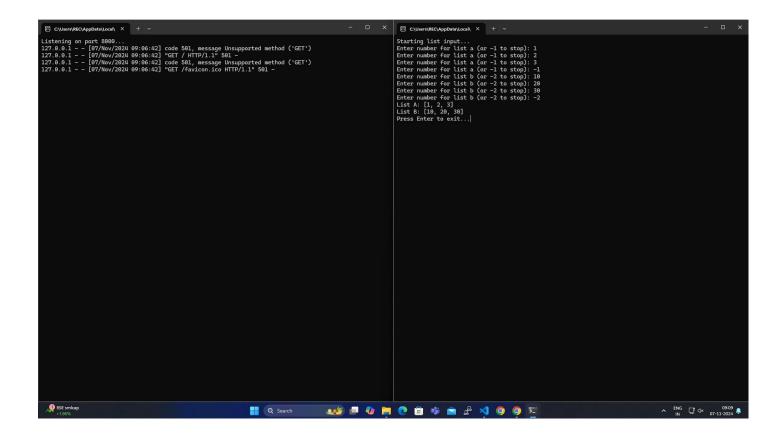
```
Client Side:
import xmlrpc.client
proxy= xmlrpc.client.ServerProxy('http://localhost:8000/') while
True:
print("PRESS 1-->STRAT || 2--> STOP ")
c=int(input("ENTER YOUR CHOICE"))
a=[]
b=[]
if c==1:
print("ENTER THE ELEMENTS TO ADD FIRST LIST") print("PRESS -1
TO EXIT THIS LIST")
while True:
d=int(input("--->"))
if d==-1:
break
a.append(d)
print("ENTER THE ELEMENTS TO ADD SECOND LIST") print("PRESS -2
TO EXIT THIS LIST")
while True:
e=int(input("--->"))
if e==-2:
break
b.append(e)
if c==2:
break
print(a)
print(b)
print("list_length",proxy.list_length(a))
print("list_maximum",proxy.list_maximum(a))
print("list_minimum",proxy.list_minimum(a))
```

Output

print("list_to_set",proxy.list_to_set(a))
print("list_concate",proxy.list_concate(a,b))

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Result: Thus, a remote procedure for list procedure is done using XMLRPC

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