# EX.NO:11C DATE:

**REMOTE PROCEDURE CALL FOR LIST OPERATIONS- XMLRPC**

# AIM:

To Implement an XML RPC code for the following functions,

1. No items in a list
2. Smallest element in a list
3. Largest element in the list
4. 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()

# 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:

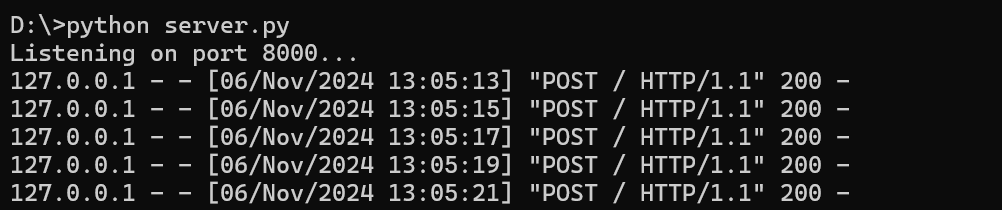
e=int(input("--->")) if e==-2:

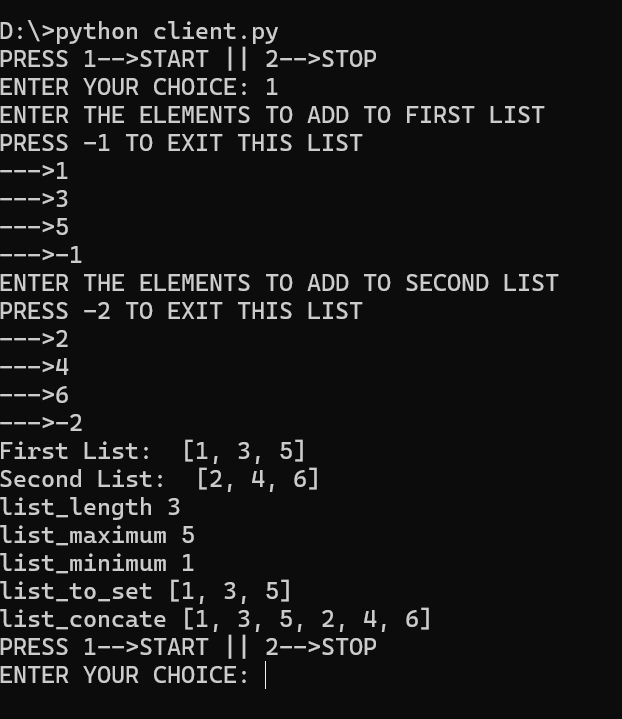
break b.append(e) if c==2:

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)) print("list\_to\_set",proxy.list\_to\_set(a)) print("list\_concate",proxy.list\_concate(a,b))

# OUTPUT





**RESULT**

Hence the following list of operations have been Implemented by an XML RPC code for the following functions

1. No of items in a list
2. Smallest element in a list
3. Largest element in the list
4. Converting a list to a set.