

# Develop a Simple calculator using XMLRPC

**AIM :**

To implement a simple calculator that performs basic arithmetic operation by XMLRPC

**PROCEDURE :**

1. Setup XML-RPL core
2. Setup XML-RPL client
3. Create a Python code
4. Test the calculator
5. Display

**PROGRAM :****SOURCE CODE :**

```

From xmlrpclib import SimpleXMLRPCServer
def add(x,y):
    return x+y
def subtract(x,y):
    return x-y
def multiple(x,y):
    return x*y
def divide (x,y):
    if y==0
        server.register_function(add, "add");
        server.register_function(sub, "subtract");
        server.register_function(mul, "multiply");
        server.register_function(div, "division");

```

client code:

```
import xmlrpclib  
proxy = xmlrpclib.ServerProxy("http://  
                               localhost:8000/")  
print("Simple calculator (XML-RPL)")  
print("Operation: add, subtract, mult, divide")  
print("Type exit, to quit")  
while True:  
    op = input("\nEnter Operations:")  
    if op == 'exit':  
        break  
    if op not in ['add', 'subtract', 'multiply',  
                  'divide']:  
        print('Invalid Operation')  
    try:  
        x = float(input("x:"))  
        y = float(input("y:"))  
    except ValueError:  
        print('Invalid Number!')  
        continue  
    result = getcalc(proxy, op)(x, y)  
    print(f'Result: {result}')
```

RESULT:

Thus the implementation of a simple calculator using XML-RPL in Python done.

Input :

Enter choice (1-4): 3

Number 1 : 12

Number : 4

Output :

result : 48.0