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#client.py

Import xmlrpc.client

# Create an XML-RPC client

with xmlrpc.client.ServerProxy("http://localhost:8000/RPC2") as proxy:

    try:

        # Replace 5 with the desired integer value

        #input_value = 5

        input_value_str=input("Enter the number : ")

        input_value=int(input_value_str)


        result = proxy.calculate_factorial(input_value)

        print(f"Factorial of {input_value} is : {result}")

    except Exception as e:

        print(f"Error: {e}")
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#server.py

from xmlrpc.server import SimpleXMLRPCServer
from xmlrpc.server import SimpleXMLRPCRequestHandler

class FactorialServer:

    def calculate_factorial(self, n):
        if n < 0:
            raise ValueError("Input must be a non-negative integer.")

        result = 1
        for i in range(1, n + 1):
            result *= i
        return result

# Restrict to a particular path.
class RequestHandler(SimpleXMLRPCRequestHandler):
    rpc_paths = ('/RPC2',)

# Create server
with SimpleXMLRPCServer(('localhost', 8000),
                        requestHandler=RequestHandler) as server:
    server.register_introspection_functions()

    # Register the FactorialServer class
    server.register_instance(FactorialServer())

    print("FactorialServer is ready to accept requests.")

    # Run the server's main loop
    server.serve_forever()

```

