

QA Automation Home Exercise

Task: Simple Arithmetic over Client-Server

Overview:

You need to implement a simple client-server system using two Python processes. The system will perform basic arithmetic operations based on user input.

Requirements:

1. Processes:

Process A (Client)

Process B (Server)

2. Functionality:

A. Client:

The class should have a method to get two numbers and an arithmetic operation from the user (interactively).

Sends these numbers and operation to Server.

B. Server:

Receives the numbers from Client.

Perform the operation of the given numbers

Returns the result back to Client.

Advantage - implement the mathematical operation as concrete implantation of an abstract class

C. Client:

print the result.

Logger Implementation:

Independent Logging:

A. Implement a logger for Process A and Process B independently.

B. Detailed Logging:

C. Log every major function/method in the code.

D. Each logged function/method should include an "Enter" and "Exit" record.

Example Log:

For a function named sendDataToServer, the logger should show:

```
---- Function sendDataToServer Enter ----...---- Function sendDataToServer Exit ----
```

It is required to only use python's build it libraries. Using external libraries is not permitted