

Operating Systems Project

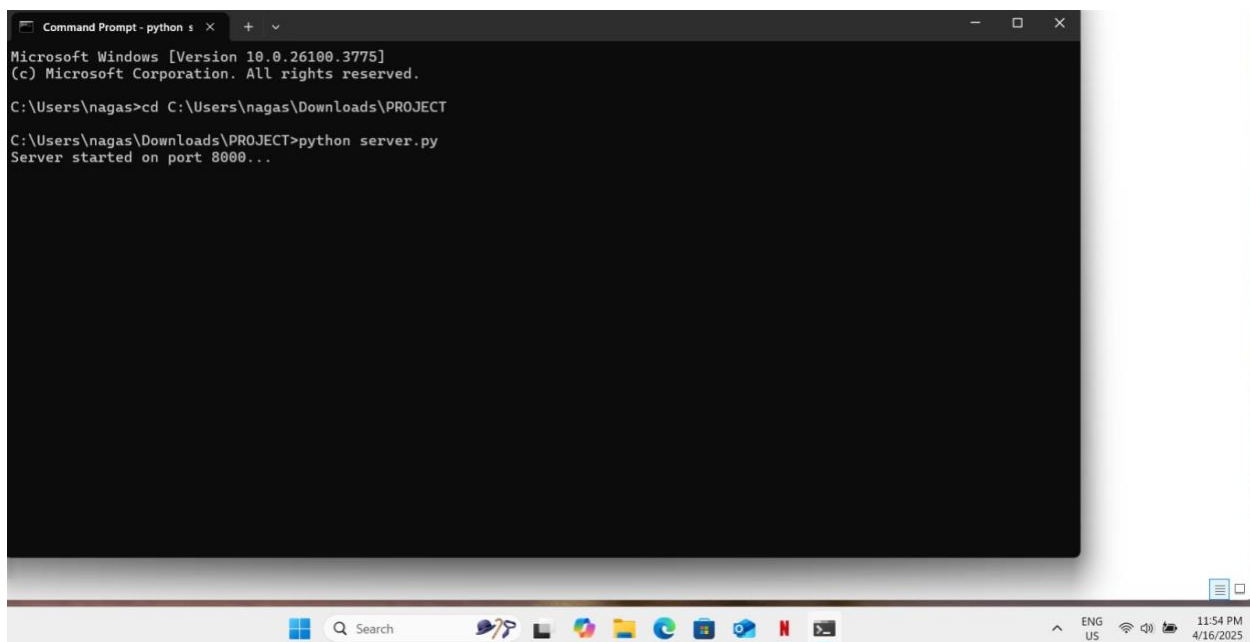
Group Members:

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Sai Chandana Erram

Screenshots

Starting Server



```
Command Prompt - python s x + v
Microsoft Windows [Version 10.0.26100.3775]
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C:\Users\nagas>cd C:\Users\nagas\Downloads\PROJECT

C:\Users\nagas\Downloads\PROJECT>python server.py
Server started on port 8000...
```

The screenshot shows a Windows Command Prompt window with a dark background. The title bar reads "Command Prompt - python s x + v". The text inside the window shows the user navigating to the directory "C:\Users\nagas\Downloads\PROJECT" and running the command "python server.py". The output of the command is "Server started on port 8000...". The Windows taskbar is visible at the bottom, showing the Start button, Search bar, and several application icons. The system tray on the right indicates the language is "ENG US", the date is "4/16/2025", and the time is "11:54 PM".

Client

```
PS C:\Users\nagas> cd C:\Users\nagas\Downloads\PROJECT
PS C:\Users\nagas\Downloads\PROJECT> python interactive_client.py
```

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```

magicAdd(a, b) Option 1

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 1
Enter first number: 7
Enter second number: 8
Result: 7.0 + 8.0 = 15.0

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 5
Operation Counters: {'add': 1, 'subtract': 0, 'min': 0, 'max': 0}

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```

magicSubtract(a, b) Option 2

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 2
Enter first number: -9
Enter second number: 7
Result: -9.0 - 7.0 = -16.0

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```



Search



ENG
US



11:56 PM
4/16/2025

magicFindMin(a, b, c) Option 3

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 3
Enter first integer: 6
Enter second integer: 9
Enter third integer: 4
Minimum of (6, 9, 4) is: 4

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```

magicFindMax(a, b, c) Option 4

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 4
Enter first integer: 6
Enter second integer: 45
Enter third integer: 1000
Maximum of (6, 45, 1000) is: 1000

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```

Exiting client (option 0)

```
Enter second integer: 45
Enter third integer: 1000
Maximum of (6, 45, 1000) is: 1000

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 0
Exiting client.
PS C:\Users\nagas\Downloads\PROJECT>
```



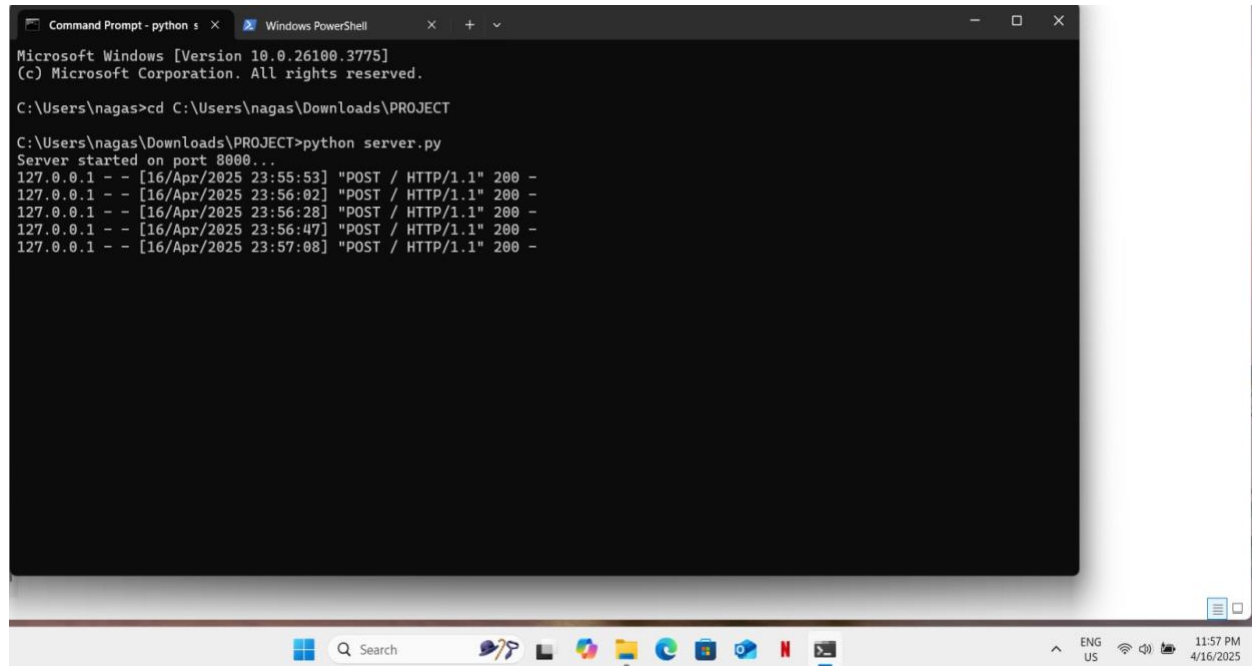
Show Operation Counters(Optional 5)

```
--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 1
Enter first number: 7
Enter second number: 8
Result: 7.0 + 8.0 = 15.0

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5): 5
Operation Counters: {'add': 1, 'subtract': 0, 'min': 0, 'max': 0}

--- Math RPC Client Menu ---
1. magicAdd(a, b)
2. magicSubtract(a, b)
3. magicFindMin(a, b, c)
4. magicFindMax(a, b, c)
5. Show operation counters
0. Exit
Choose an option (0-5):
```

Server



```
Command Prompt - python s x Windows PowerShell x + v
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nagas>cd C:\Users\nagas\Downloads\PROJECT

C:\Users\nagas\Downloads\PROJECT>python server.py
Server started on port 8000...
127.0.0.1 - - [16/Apr/2025 23:55:53] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Apr/2025 23:56:02] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Apr/2025 23:56:28] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Apr/2025 23:56:47] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Apr/2025 23:57:08] "POST / HTTP/1.1" 200 -
```

The screenshot shows a Windows desktop with a taskbar at the bottom. The taskbar includes the Start button, a search bar, and several application icons. The system tray on the right shows the language set to 'ENG US', network and volume icons, and the time '11:57 PM' on '4/16/2025'. The Command Prompt window is open, displaying the execution of a Python script that acts as a web server on port 8000. It shows five successful POST requests from the local IP address 127.0.0.1, each returning a 200 status code.