

IP Addresses':

I have taken ip address based on the free ports available in my laptop.

By typing netstat in cmd we will get out available ports in out laptop.

```
Command Prompt - netstat
Microsoft Windows [Version 10.0.19044.1706]
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C:\Users\karna>netstat

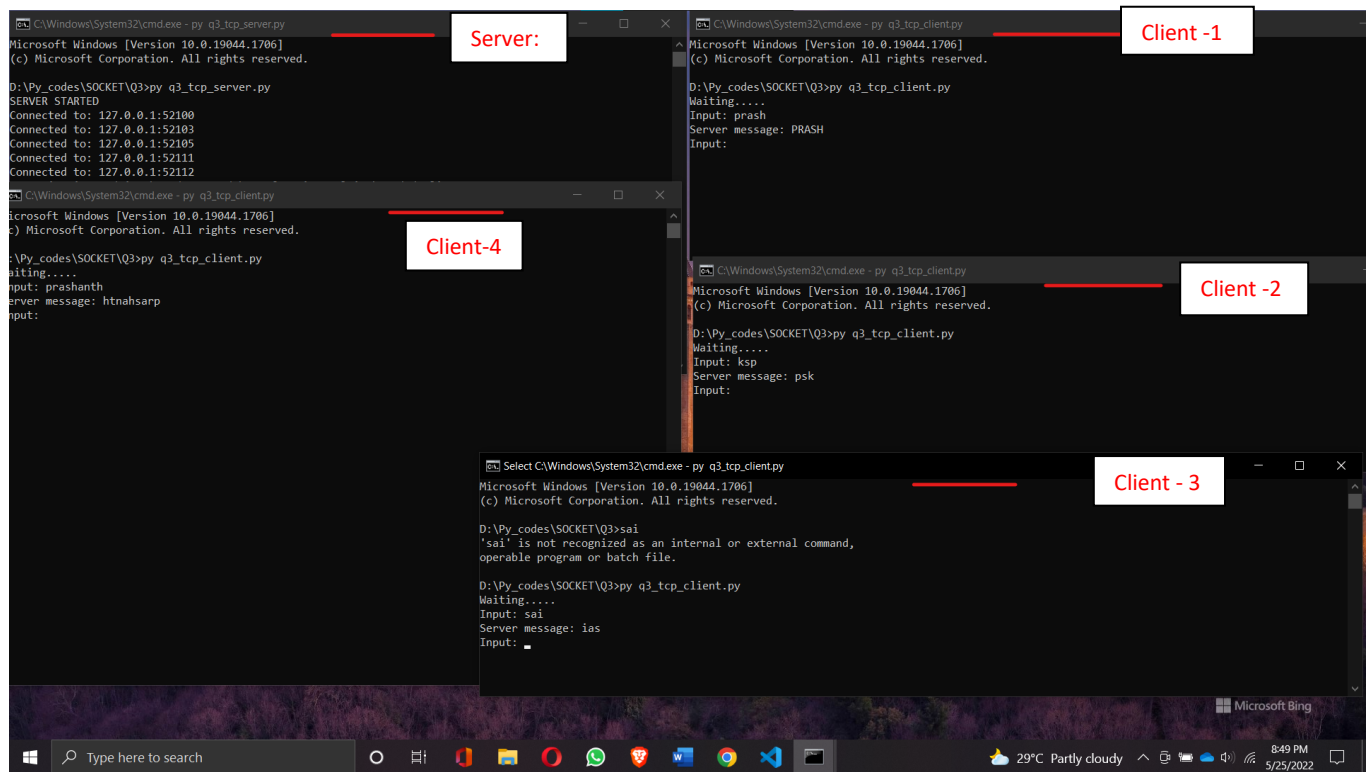
Active Connections

    Proto Local Address          Foreign Address         State
    TCP    127.0.0.1:49736        Prash:49737             ESTABLISHED
    TCP    127.0.0.1:49737        Prash:49736             ESTABLISHED
    TCP    127.0.0.1:49738        Prash:49739             ESTABLISHED
    TCP    127.0.0.1:49739        Prash:49738             ESTABLISHED
    TCP    127.0.0.1:49740        Prash:49741             ESTABLISHED
    TCP    127.0.0.1:49741        Prash:49740             ESTABLISHED
    TCP    127.0.0.1:49742        Prash:49743             ESTABLISHED
    TCP    127.0.0.1:49743        Prash:49742             ESTABLISHED
    TCP    127.0.0.1:49744        Prash:49745             ESTABLISHED
    TCP    127.0.0.1:49745        Prash:49744             ESTABLISHED
    TCP    127.0.0.1:49746        Prash:49747             ESTABLISHED
```

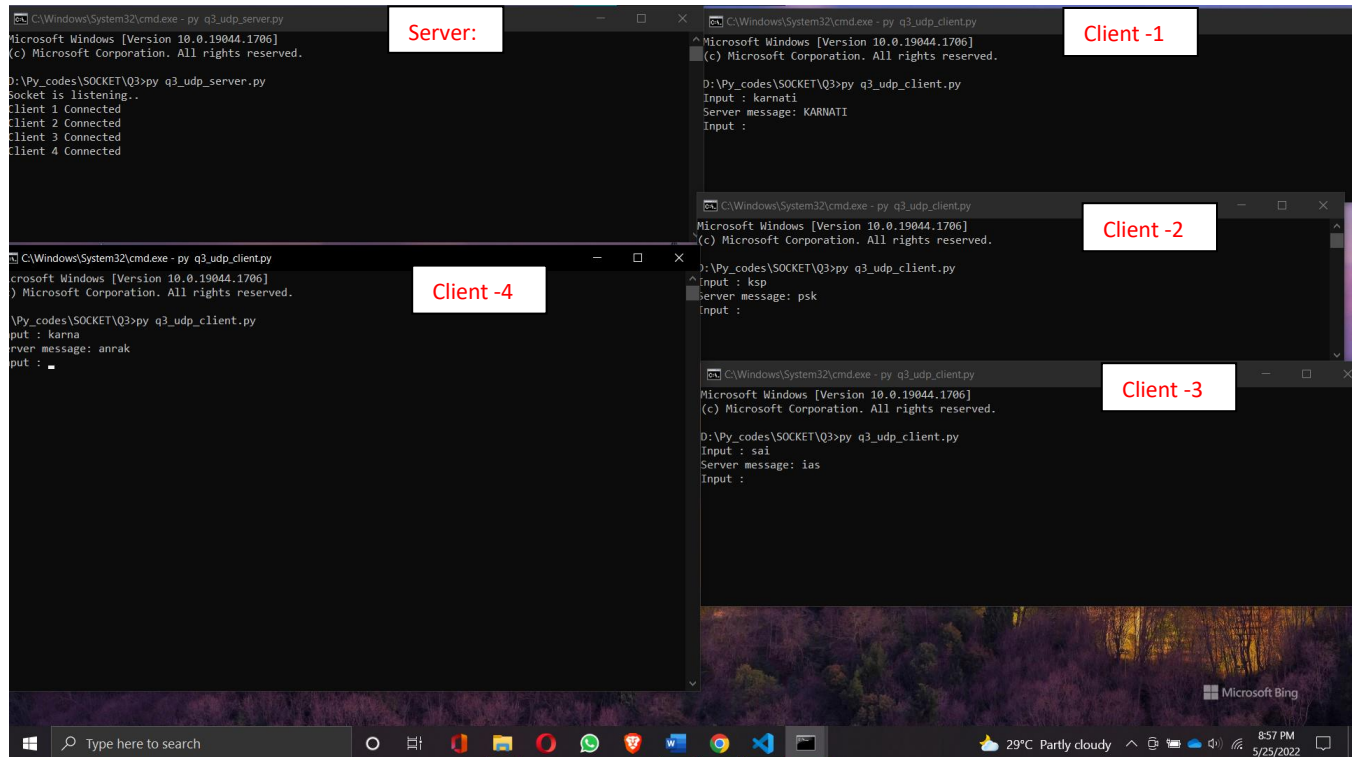
Change the sentence case using TCP and UDP sockets.

The problem is same as Q1 and Q2 except that here you will fix the application for client 1 and the remaining four clients will perform string reversal. The IP address of client1 is fixed. If the incoming sentence is lower case, output should be of upper caser and vice versa.

TCP :



UDP:



The screenshot displays a Windows 10 desktop with four terminal windows open, demonstrating a UDP communication setup. The windows are labeled as follows:

- Server:** The top-left terminal window, titled "C:\Windows\System32\cmd.exe - py q3_udp_server.py", shows the server script running. It outputs "Socket is listening..", "Client 1 Connected", "Client 2 Connected", "Client 3 Connected", and "Client 4 Connected".
- Client -1:** The top-right terminal window, titled "C:\Windows\System32\cmd.exe - py q3_udp_client.py", shows the client script running. It outputs "Input : karnati", "Server message: KARNATI", and "Input :".
- Client -2:** The middle-right terminal window, titled "C:\Windows\System32\cmd.exe - py q3_udp_client.py", shows the client script running. It outputs "Input : ksp", "Server message: psk", and "Input :".
- Client -3:** The bottom-right terminal window, titled "C:\Windows\System32\cmd.exe - py q3_udp_client.py", shows the client script running. It outputs "Input : sai", "Server message: ias", and "Input :".

The bottom-left terminal window, titled "C:\Windows\System32\cmd.exe - py q3_udp_client.py", shows the client script running. It outputs "Input : karna", "Server message: anrak", and "Input :".

The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system tray on the right indicates the temperature is 29°C, it is partly cloudy, and the time is 8:57 PM on 5/25/2022.