# Assignment 1
## Network Programming(IS F462)

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Some of the ways to obtain the port numbers used by TCP and UDP:

- `netstat --ntue --program` : The command returns all active tcp and udp connections and their current states and processes along with process owners. Here User 0 refers to root and 1000 refers to the first user ever created on my system. Running the command **cat /etc/passwd|grep 1000** gives me the identity of the user i.e. shreyas



- `ss -ntupe` : The command does the same as netstat. The ports being are similar to the previous result.

- `lsof -i TCP` and `lsof -i UDP` :  The command does the same as the above.  It tells us about the list of open files and processes.



The port numbers being used by TCP are :
1. **59588** is used by PID **8699** which is **firefox** which is owned by **shreyas**. (TCP State: ESTABLISHED)
2. **42271** is used by PID **9406** which is **eiskaltdc** which is owned by **shreyas**. (TCP State: ESTABLISHED)
3. **48144** is used by PID **8699** which is **firefox** which is owned by **shreyas**. (TCP State: ESTABLISHED)

The port number used by UDP is **38136** which is being used by **PID 8863** which is **chrome-gnome-sh** which is owned by **shreyas**.

All the above answers have been obtained from the above images.