

Task 2 - Operating Systems - ScreenShots

prog1:

```
mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog1$ ./ttt 123456789
1
3
2
5
4
6
7
I Won
mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog1$
```

prog2:

```
mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog2$ ./mync -e "./ttt 123456789"
1
6
2
8
3
I Won
Program exited with status: 0
mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog2$
```

prog3:

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
3  
6  
9  
^C  
mastik@mastik-VirtualBox:~$  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$ ./mync -e "./ttt 123456789" -i TCPS4050  
Listening for client on port: 4050  
Connection established  
1  
2  
4  
I Lost  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
1  
3  
2  
5  
4  
9  
6  
8  
7  
I Won  
^C  
mastik@mastik-VirtualBox:~$  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$ ./mync -e "./ttt 123456789" -b TCPS4050  
Listening for client on port: 4050  
Connection established  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -l 4455  
1  
3  
4  
6  
I Lost  
mastik@mastik-VirtualBox:~$  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
2  
5  
7  
8  
^C  
mastik@mastik-VirtualBox:~$  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$ ./mync -e ".ttt 123456789" -i TCPS4050 -o TCPClocalhost,4455  
Waiting for client connection on port: 4050  
The connection was established successfully  
The connection was established successfully  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3$
```

prog3.5:

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
hey  
this  
works!  
^C  
mastik@mastik-VirtualBox:~$  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$ ./mync -o TCPS4050  
Awaiting client connection on port: 4050  
Connection established successfully  
hey  
this  
works!  
^C  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
hello server  
this  
is  
amazing!  
^C  
mastik@mastik-VirtualBox:~$  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$ ./mync -i TCPS4050  
Awaiting client connection on port: 4050  
Connection established successfully  
hello server  
this  
is  
amazing!  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -l 4050  
i  
can  
pass  
every  
message  
^C  
mastik@mastik-VirtualBox:~$  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$ ./mync -o TCPClocalhost,4050  
Connection established successfully  
i  
can  
pass  
every  
message  
^C  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc localhost 4050  
hey  
hey  
it acts like echo  
it acts like echo  
stop mimic me  
stop mimic me  
^C  
mastik@mastik-VirtualBox:~$  
  
• mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$ ./mync -b TCPS4050  
Awaiting client connection on port: 4050  
Connection established successfully  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog3.5$
```

prog4:

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -u localhost 4050  
3  
□  
  
• mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog4$ ./mync -e ".ttt 123456789" -i UDPS4050 -t 10  
UDP server is listening on port: 4050  
1  
2  
Alarm signal (14) received. Terminating all specified processes.  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog4$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -l 4455  
1  
2  
4  
I Lost  
mastik@mastik-VirtualBox:~$  
  
mastik@mastik-VirtualBox:~$ nc -u localhost 4050  
3  
6  
9  
  
• mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog4$ ./mync -e ". /ttt 123456789" -i UDPS4050 -o TCPClocalhost,4455  
UDP server is listening on port: 4050  
The connection was established successfully  
• mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog4$
```

prog6:

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -U "/tmp/new_server"  
3  
6  
7  
9  
mastik@mastik-VirtualBox:~$  
  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
Server listening on /tmp/new_server  
Client connected  
1  
2  
4  
5  
I Lost  
• mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog6$
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -Uu "/tmp/new_server"  
4  
8  
[ ]  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog6$ ./mync -e "./ttt 123456789" -i UDSSD  
Unix Domain Datagram server is listening on /tmp/new_server  
1  
2  
3  
I Won  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog6$ [ ]
```

```
mastik@mastik-VirtualBox: ~  
mastik@mastik-VirtualBox:~$ nc -lU /tmp/new_server  
1  
2  
5  
6  
9  
I Won  
mastik@mastik-VirtualBox:~$ [ ]  
  
● mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog6$ ./mync -e "./ttt 123456789" -o UDSCS  
Connected to server on /tmp/new_server  
3  
4  
7  
8  
○ mastik@mastik-VirtualBox:~/ComputerScience/OperatingSystems/Ex2/prog6$ [ ]
```