Assignment 10

Inter Process Communication (IPC)

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File Transfer Using TCP



```
(base) → socket-demo ./file_transfer_client localhost
......
.......
11111111111111111111111
                                           `!!!!!!!!!!!!!!!!!
11111111111111111111
111111111111111111
                  .,cchcccccc,,.
              .-"?$$$$$$$$$$$$c,
!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!
             ,ccc$$$$$$$$$$$$$$$$$$,
......
            z$$$$$$$$$$$$$$$$$$$;.
1111111111111
           <$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
111111111111
            $$$$$$$$$$$$$$$$$$$$$$;:.
111111111111
            11111111111
           1111111111
           `$$$$$$$$$$$$$$$$$$$$$$$$$
            c$$$$???$$$$$$P"" """??????"
111111111
           "" .,.. "$$$$F .,zcr
. dL .?$$$ .,cc,
1111111
1111111
111111111
           <. $$c= <$d$$$
                       <$$$$=-=+"$$$$$$$
1111111
           d$$$hcccd$$$$$ d$$$hcccd$$$$$$F
1111111
           11111
            $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
11111
           `$$$$$$$$$$$$$$$$$$$$$$$$$$
11111
            ?$$$$$$$$$$$??$c`$$$$$$$$?>'
            `?$$$$$$17?"",$$$$$$$?>>'
11111
                       ,d$$?$$$$F>>''
!!!!!.
            <<?$$$$$c.
            <i?$P"??$$r--"?"" ,$$$$h;>''
1111111
             $$$hcccccccc cc$$$$$$>>>'
1111111
              111111
111111
               "?$$$$ccccc$$$??>>>'
!!!!>
                 "$$$$$$$$$$F>>>> ' '
                  "$$$$$$$???>'''
11111
!!!!!!>
                    . . . . . . . .
!!!!!!;
1111111
                       $$c,
!!!!!!!!!
!!!!!!!!>
                       ?$$$h.
                       $$$$$$$$$hc,.,,cc$$$$$
                    .,zcc$$$$$$$$$$$$$$$$$$$$$$
                  , d$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
              , d$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
```

```
(base) → socket-demo ./file_transfer_server
server: got connection from 127.0.0.1
Sending the file...
Send successfully completed...
```

DNS Server Using UDP

```
(base) → socket-demo ./dns_server
got packet from 127.0.0.1
packet contains "essayyzed.net"

got packet from 127.0.0.1
packet contains "localhost"

got packet from 127.0.0.1
packet contains "slate.nu.edu.pk"
```

```
(base) → socket-demo ./dns_client localhost
Enter the domain name: essayyzed.net
sent 13 bytes to 127.0.0.1
Received back the IP addresses
194.59.164.46
(base) → socket-demo ./dns_client localhost
Enter the domain name: localhost
sent 9 bytes to 127.0.0.1
Received back the IP addresses
127.0.0.1
(base) → socket-demo ./dns_client localhost
Enter the domain name: slate.nu.edu.pk
sent 15 bytes to 127.0.0.1
Received back the IP addresses
210.56.27.170
(base) → socket-demo
```