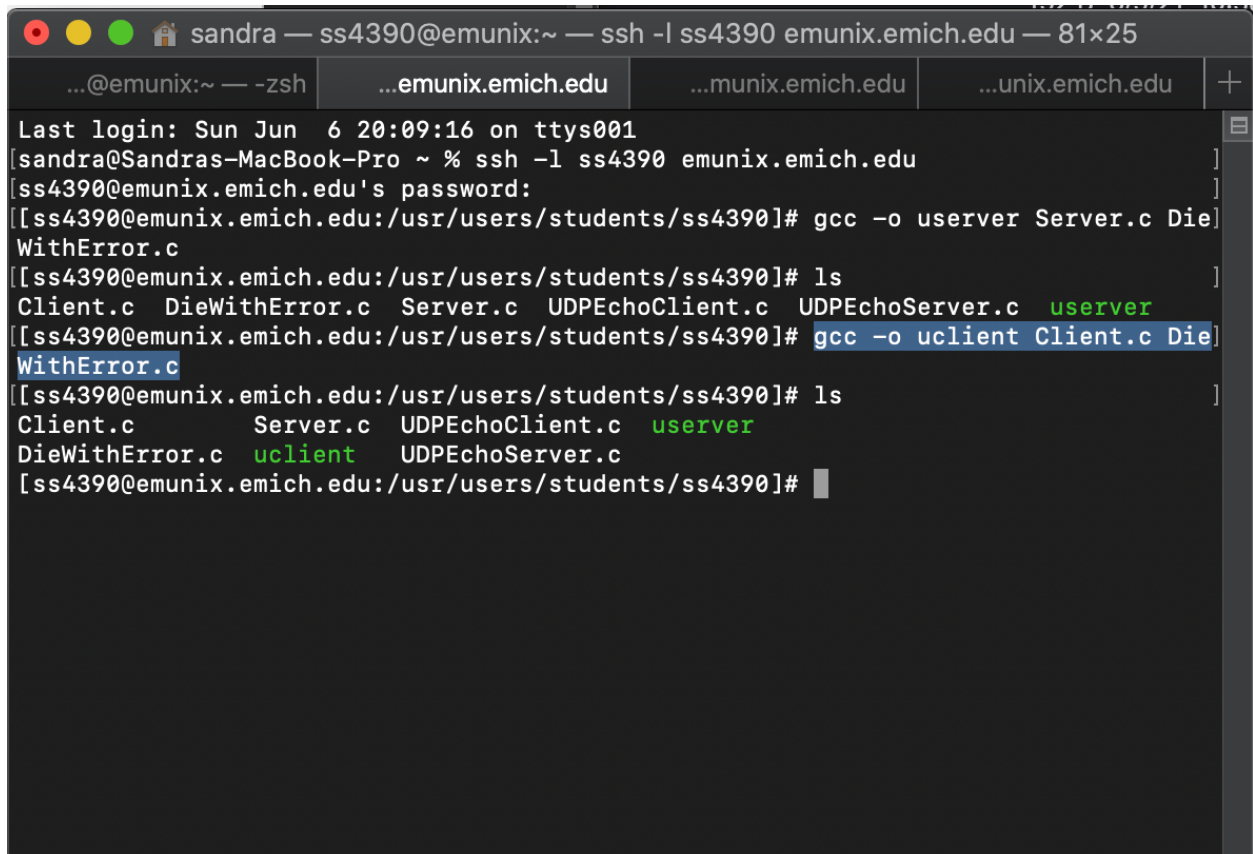


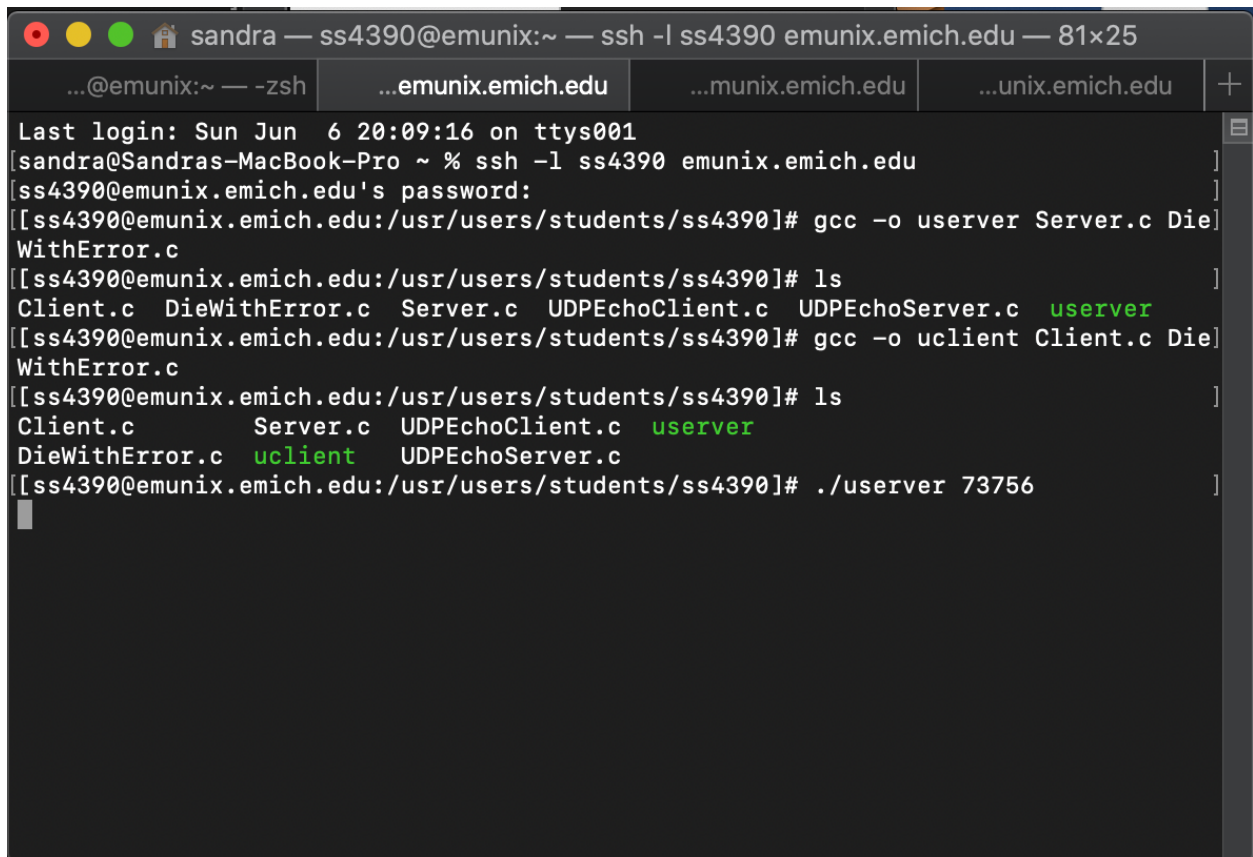
To run, step 1, you connect to emuniz.emich.edu  
Step 2, gcc -o userver Server.c DieWithError.c  
Step 3, gcc -o uclient Client.c DieWithError.c  
As shown:



```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 81x25
...@emunix:~ — -zsh  ...emunix.emich.edu  ...munix.emich.edu  ...unix.emich.edu  +
Last login: Sun Jun  6 20:09:16 on ttys001
[sandra@Sandras-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# gcc -o userver Server.c DieWithError.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ls
Client.c DieWithError.c Server.c UDPEchoClient.c UDPEchoServer.c userver
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# gcc -o uclient Client.c DieWithError.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ls
Client.c Server.c UDPEchoClient.c userver
DieWithError.c uclient UDPEchoServer.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]#
```

Conneting to server, step 4: ./userver [port number] example: ./userver 73756

As shown:



```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 81x25
...@emunix:~ — -zsh  ...emunix.emich.edu  ...munix.emich.edu  ...unix.emich.edu  +
Last login: Sun Jun  6 20:09:16 on ttys001
[sandra@Sandras-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# gcc -o userver Server.c DieWithError.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ls
Client.c DieWithError.c Server.c UDPEchoClient.c UDPEchoServer.c userver
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# gcc -o uclient Client.c DieWithError.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ls
Client.c      Server.c UDPEchoClient.c userver
DieWithError.c uclient  UDPEchoServer.c
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ./userver 73756
```

Connecting client, step 5: ./uclient [ip address] [port number] [request ID]  
example: ./uclient 127.0.0.1 73756 1234

```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 81x25
...nix:~ — -zsh  ...nix.emich.edu  ...nix.emich.edu  ...nix.emich.edu  ...nix.emich.edu  +
Last login: Tue Jun  8 13:24:53 on ttys005
[sandra@Sandra-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ./uclient 127.0.0.1 73756 1
234

1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: -
```

Translating to pig latin : 1

```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 96x20
...nix.emich.edu  ...mich.edu  ...  ...nix.emich.edu  ...nix:~ — -zsh  ...:~ — -zsh  ... -zsh  ... h  +
Last login: Tue Jun  8 15:59:23 on ttys007
[sandra@Sandra-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ./uclient 127.0.0.1 73756 1234
[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 1 ]
[ Enter the phrase :- Hello World ]
generating message with requestID 1234
Received: elloHay orldWay

1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: -
```

Translating to English: 2

```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 96x20
...nix.emich.edu ...nix.emich.edu ...nix:~ — -zsh ...:~ — -zsh ...-zsh ...h +
Last login: Tue Jun  8 15:59:23 on ttys007
[sandra@Sandras-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ./uclient 127.0.0.1 73756 1234 ]

[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 1 ]
[ Enter the phrase :- Hello World ]
generating message with requestID 1234
Received: elloHay orldWay

[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 2 ]
[ Enter the phrase :- elloHay orldWay ]
generating message with requestID 1234
Received: Hello World

1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - █
```

Exit: 3

```
sandra — ss4390@emunix:~ — ssh -l ss4390 emunix.emich.edu — 96x20
...nix.emich.edu ...nix.emich.edu ...nix:~ — -zsh ...:~ — -zsh ...-zsh ...h +
Last login: Tue Jun  8 15:59:23 on ttys007
[sandra@Sandras-MacBook-Pro ~ % ssh -l ss4390 emunix.emich.edu ]
[ss4390@emunix.emich.edu's password: ]
[[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# ./uclient 127.0.0.1 73756 1234 ]

[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 1 ]
[ Enter the phrase :- Hello World ]
generating message with requestID 1234
Received: elloHay orldWay

[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 2 ]
[ Enter the phrase :- elloHay orldWay ]
generating message with requestID 1234
Received: Hello World

[ 1 for toPigLatin translation, 2 for FromPigLatin translation, 3 for exit: - 3 ]
[ss4390@emunix.emich.edu:/usr/users/students/ss4390]# █
```