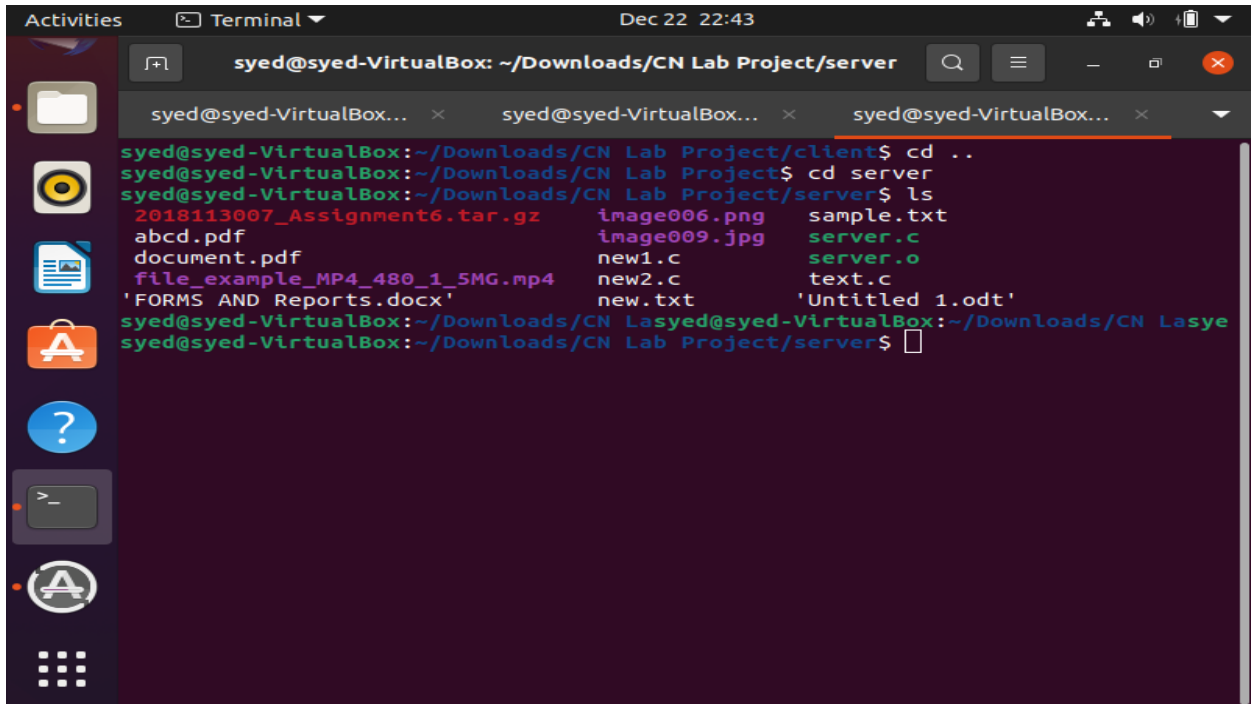


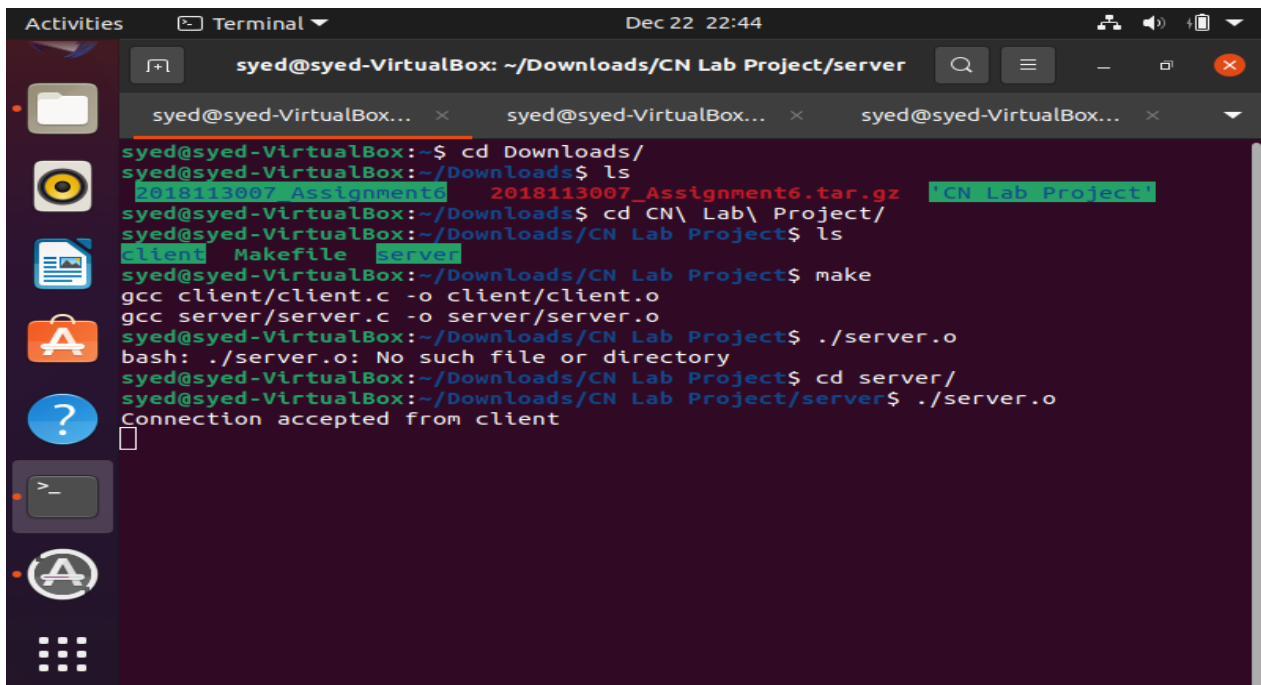
## OUTPUT / SCREENSHOTS



The screenshot shows a terminal window titled "syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server". The user has navigated to the server directory and executed the `ls` command. The output lists the following files and directories: `2018113007_Assignment6.tar.gz`, `abcd.pdf`, `document.pdf`, `file_example_MP4_480_1_5MG.mp4`, `'FORMS AND Reports.docx'`, `image006.png`, `image009.jpg`, `new1.c`, `new2.c`, `new.txt`, `sample.txt`, `server.c`, `server.o`, `text.c`, and `'Untitled 1.odt'`.

```
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ cd ..
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd server
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$ ls
2018113007_Assignment6.tar.gz  image006.png  sample.txt
abcd.pdf                      image009.jpg  server.c
document.pdf                  new1.c        server.o
file_example_MP4_480_1_5MG.mp4 new2.c        text.c
'FORMS AND Reports.docx'      new.txt       'Untitled 1.odt'
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$
```

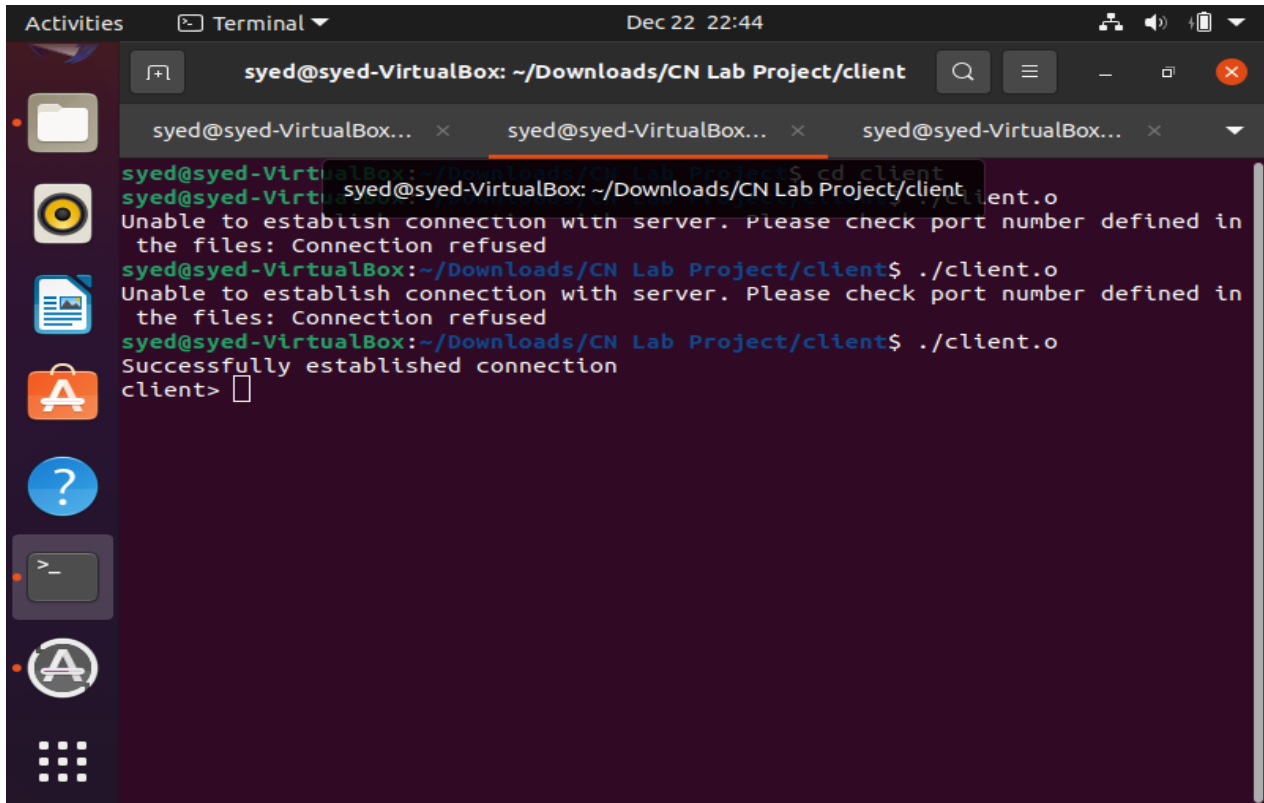
Figure 1: List of files in server side



The screenshot shows a terminal window titled "syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server". The user navigates to the `Downloads` directory, then to the `CN Lab Project` directory, and lists the contents. The output shows `client`, `Makefile`, and `server`. The user then runs `make` in the `CN Lab Project` directory, which compiles `client/client.c` to `client/client.o` and `server/server.c` to `server/server.o`. The user then runs `./server.o` in the `CN Lab Project` directory, which results in an error: `bash: ./server.o: No such file or directory`. The user then navigates to the `server` directory and runs `./server.o`, which results in the message: `Connection accepted from client`.

```
syed@syed-VirtualBox:~$ cd Downloads/
syed@syed-VirtualBox:~/Downloads$ ls
2018113007_Assignment6  2018113007_Assignment6.tar.gz  'CN Lab Project'
syed@syed-VirtualBox:~/Downloads$ cd CN\ Lab\ Project/
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ls
client  Makefile  server
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ make
gcc client/client.c -o client/client.o
gcc server/server.c -o server/server.o
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ./server.o
bash: ./server.o: No such file or directory
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd server/
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$ ./server.o
Connection accepted from client
```

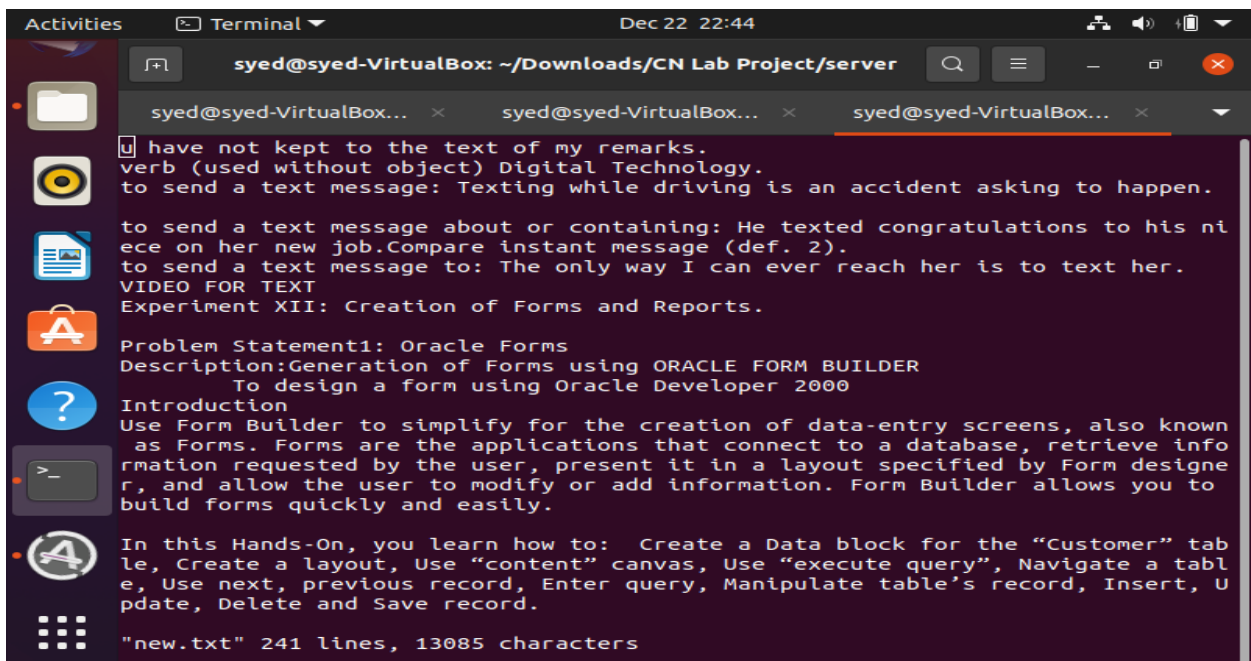
Figure 2: Server side connection



The image shows a terminal window titled "syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client". The terminal output shows three attempts to run the command `./client.o`. The first two attempts result in the message "Unable to establish connection with server. Please check port number defined in the files: Connection refused". The third attempt results in the message "Successfully established connection". The prompt `client>` is visible at the end of the output.

```
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Successfully established connection
client>
```

Figure 3: Client side connection



The image shows a terminal window titled "syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server". The terminal output displays the contents of a text file named "new.txt". The text includes a paragraph about digital technology, a video title "VIDEO FOR TEXT", a section header "Experiment XII: Creation of Forms and Reports.", a problem statement about Oracle Forms, an introduction to Form Builder, and a list of tasks for a hands-on exercise.

```
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server
I have not kept to the text of my remarks.
verb (used without object) Digital Technology.
to send a text message: Texting while driving is an accident asking to happen.

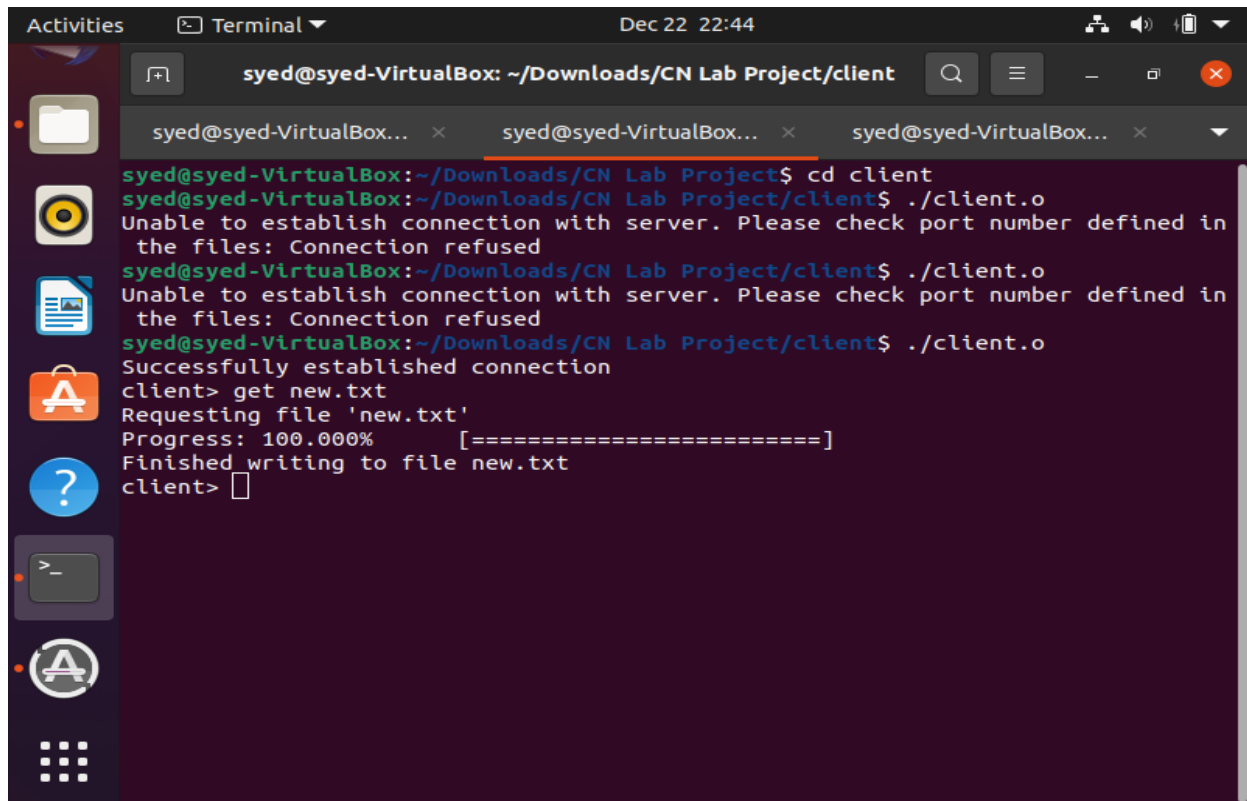
to send a text message about or containing: He texted congratulations to his ni
ece on her new job.Compare instant message (def. 2).
to send a text message to: The only way I can ever reach her is to text her.
VIDEO FOR TEXT
Experiment XII: Creation of Forms and Reports.

Problem Statement1: Oracle Forms
Description:Generation of Forms using ORACLE FORM BUILDER
To design a form using Oracle Developer 2000
Introduction
Use Form Builder to simplify for the creation of data-entry screens, also known
as Forms. Forms are the applications that connect to a database, retrieve info
rmation requested by the user, present it in a layout specified by Form designe
r, and allow the user to modify or add information. Form Builder allows you to
build forms quickly and easily.

In this Hands-On, you learn how to: Create a Data block for the "Customer" tab
le, Create a layout, Use "content" canvas, Use "execute query", Navigate a tabl
e, Use next, previous record, Enter query, Manipulate table's record, Insert, U
pdate, Delete and Save record.

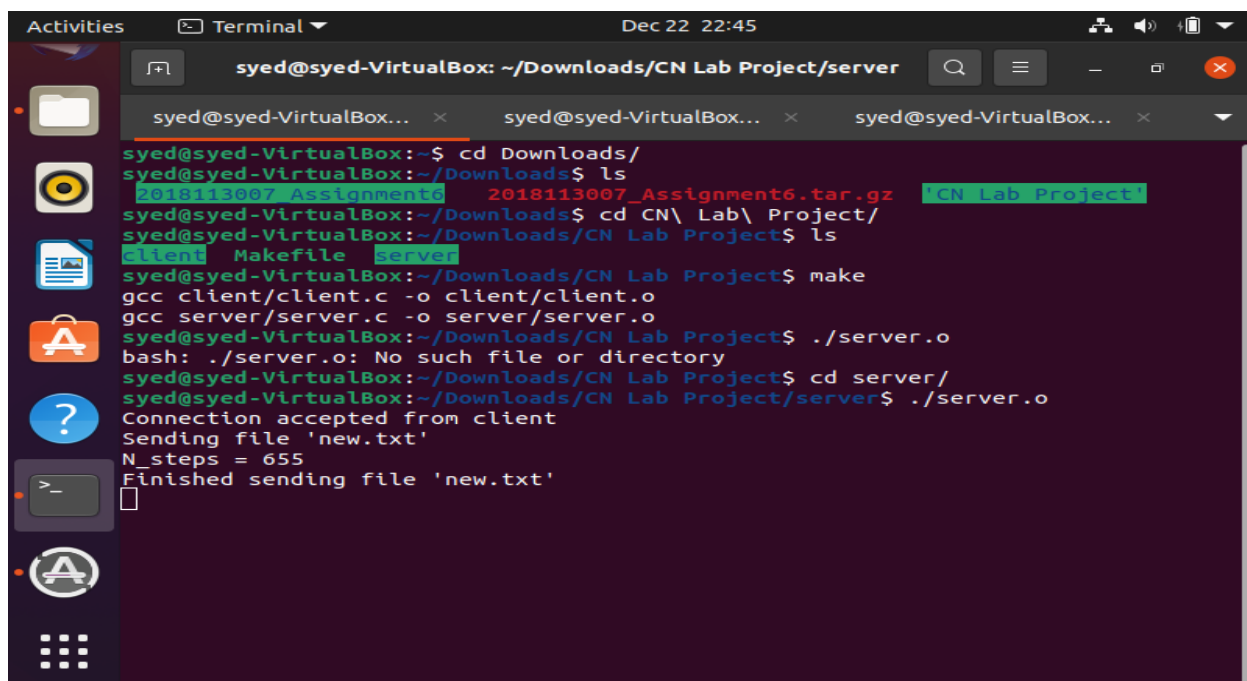
"new.txt" 241 lines, 13085 characters
```

Figure 4: Example Text file

A terminal window titled 'syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client' showing the execution of a client program. The user runs './client.o' three times. The first two attempts fail with the message 'Unable to establish connection with server. Please check port number defined in the files: Connection refused'. The third attempt succeeds, displaying 'Successfully established connection'. The user then enters 'client> get new.txt', which triggers the server to send a file. The terminal shows 'Requesting file 'new.txt'', 'Progress: 100.000%' with a progress bar, and 'Finished writing to file new.txt'. The prompt returns to 'client>'.

```
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd client
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Successfully established connection
client> get new.txt
Requesting file 'new.txt'
Progress: 100.000%      [=====]
Finished writing to file new.txt
client> 
```

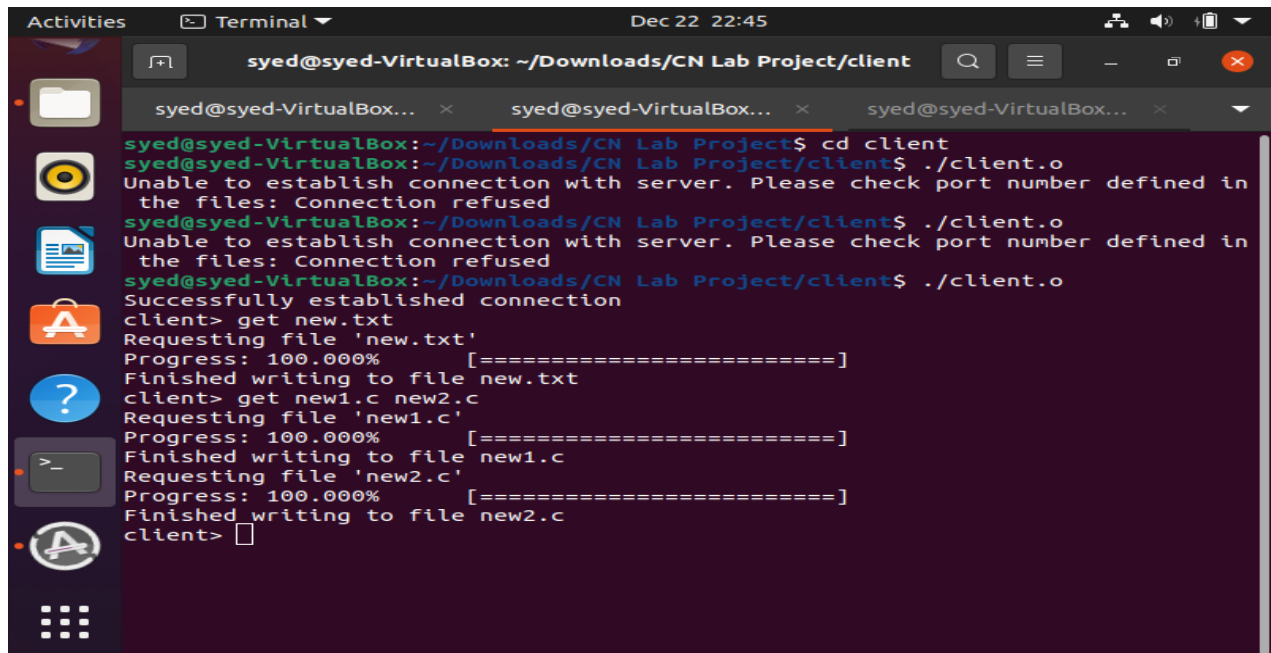
Figure 5 : Get file at client side

A terminal window titled 'syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server' showing the compilation and execution of a server program. The user navigates to the Downloads directory, lists files (showing '2018113007\_Assignment6' and '2018113007\_Assignment6.tar.gz'), and then moves to the 'CN Lab Project' directory. They run 'make' to compile 'client/client.c' and 'server/server.c' into 'client.o' and 'server.o'. The user then runs './server.o' twice. The first run results in a 'bash: ./server.o: No such file or directory' error. The second run, after changing to the 'server/' directory, shows 'Connection accepted from client', 'Sending file 'new.txt'', and 'N\_steps = 655'. The terminal ends with 'Finished sending file 'new.txt'' and a blank prompt.

```
syed@syed-VirtualBox:~$ cd Downloads/
syed@syed-VirtualBox:~/Downloads$ ls
2018113007_Assignment6  2018113007_Assignment6.tar.gz  CN Lab Project
syed@syed-VirtualBox:~/Downloads$ cd CN\ Lab\ Project/
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ls
client  Makefile  server
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ make
gcc client/client.c -o client/client.o
gcc server/server.c -o server/server.o
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ./server.o
bash: ./server.o: No such file or directory
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd server/
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$ ./server.o
Connection accepted from client
Sending file 'new.txt'
N_steps = 655
Finished sending file 'new.txt'

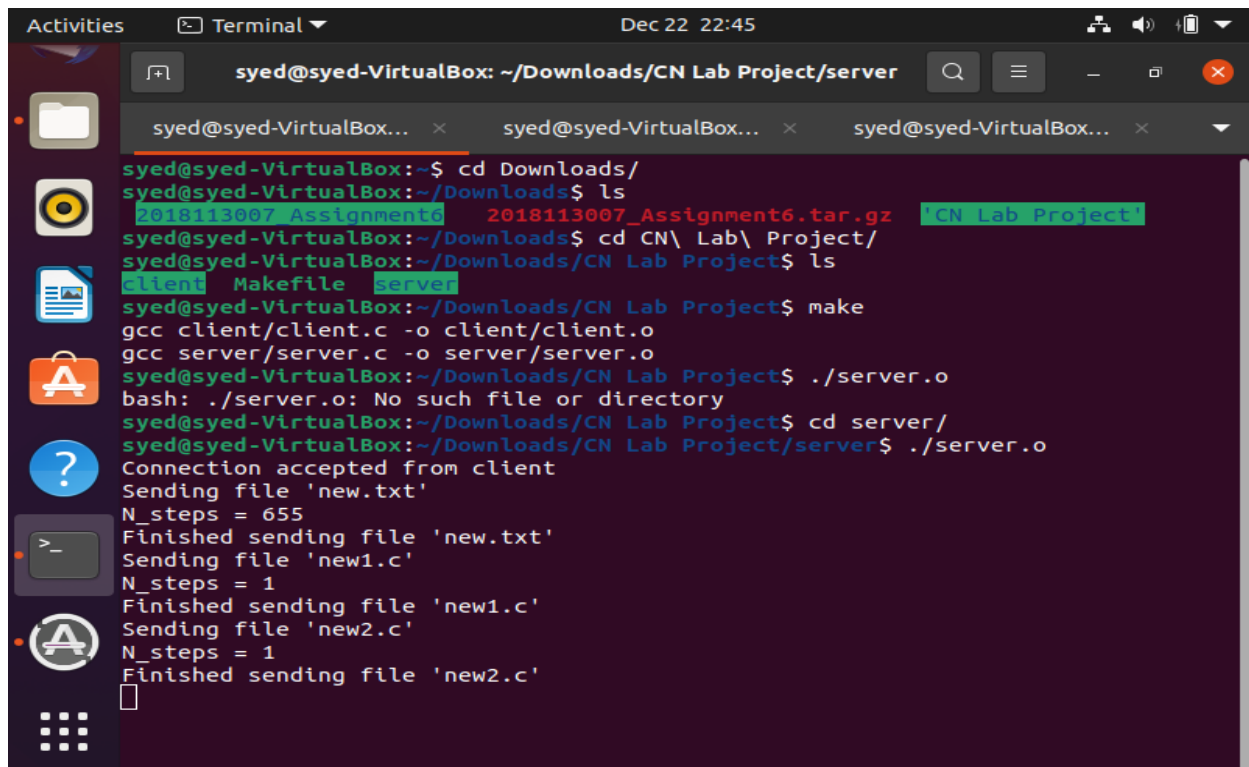
```

Figure 6 : Finished sending one file

A terminal window titled 'syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client' showing the execution of a client program. The user runs './client.o' three times. The first two attempts fail with 'Unable to establish connection with server. Please check port number defined in the files: Connection refused'. The third attempt succeeds, showing 'Successfully established connection'. The user then enters 'client> get new.txt', which shows progress bars for requesting and writing the file. Finally, the user enters 'client> get new1.c new2.c', which also shows progress bars for requesting and writing both files.

```
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd client
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Successfully established connection
client> get new.txt
Requesting file 'new.txt'
Progress: 100.000% [=====]
Finished writing to file new.txt
client> get new1.c new2.c
Requesting file 'new1.c'
Progress: 100.000% [=====]
Finished writing to file new1.c
Requesting file 'new2.c'
Progress: 100.000% [=====]
Finished writing to file new2.c
client>
```

Figure 7 : Get multiple files at client side

A terminal window titled 'syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server' showing the execution of a server program. The user navigates to the Downloads directory, lists files (showing '2018113007\_Assignment6' and '2018113007\_Assignment6.tar.gz'), and then navigates to the 'CN Lab Project' directory. They run 'make' to compile the server and client programs. Then, they run './server.o', which shows 'bash: ./server.o: No such file or directory'. They then navigate to the 'server/' subdirectory and run './server.o' again. This time, it shows 'Connection accepted from client' and proceeds to send 'new.txt' (655 steps), 'new1.c' (1 step), and 'new2.c' (1 step).

```
syed@syed-VirtualBox:~$ cd Downloads/
syed@syed-VirtualBox:~/Downloads$ ls
2018113007_Assignment6  2018113007_Assignment6.tar.gz  CN Lab Project
syed@syed-VirtualBox:~/Downloads$ cd CN\ Lab\ Project/
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ls
client  Makefile  server
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ make
gcc client/client.c -o client/client.o
gcc server/server.c -o server/server.o
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ./server.o
bash: ./server.o: No such file or directory
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd server/
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$ ./server.o
Connection accepted from client
Sending file 'new.txt'
N_steps = 655
Finished sending file 'new.txt'
Sending file 'new1.c'
N_steps = 1
Finished sending file 'new1.c'
Sending file 'new2.c'
N_steps = 1
Finished sending file 'new2.c'

```

Figure 8 : Finished sending multiple files

```
Activities Terminal Dec 22 22:45
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/client

syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd client
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Unable to establish connection with server. Please check port number defined in
the files: Connection refused
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$ ./client.o
Successfully established connection
client> get new.txt
Requesting file 'new.txt'
Progress: 100.000% [=====]
Finished writing to file new.txt
client> get new1.c new2.c
Requesting file 'new1.c'
Progress: 100.000% [=====]
Finished writing to file new1.c
Requesting file 'new2.c'
Progress: 100.000% [=====]
Finished writing to file new2.c
client> exit
Exiting
syed@syed-VirtualBox:~/Downloads/CN Lab Project/client$
```

Figure 9: Exit at client side

```
Activities Terminal Dec 22 22:45
syed@syed-VirtualBox: ~/Downloads/CN Lab Project/server

syed@syed-VirtualBox:~$ cd Downloads/
syed@syed-VirtualBox:~/Downloads$ ls
2018113007_Assignment6 2018113007_Assignment6.tar.gz CN Lab Project
syed@syed-VirtualBox:~/Downloads$ cd CN\ Lab\ Project/
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ls
client Makefile server
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ make
gcc client/client.c -o client/client.o
gcc server/server.c -o server/server.o
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ ./server.o
bash: ./server.o: No such file or directory
syed@syed-VirtualBox:~/Downloads/CN Lab Project$ cd server/
syed@syed-VirtualBox:~/Downloads/CN Lab Project/server$ ./server.o
Connection accepted from client
Sending file 'new.txt'
N_steps = 655
Finished sending file 'new.txt'
Sending file 'new1.c'
N_steps = 1
Finished sending file 'new1.c'
Sending file 'new2.c'
N_steps = 1
Finished sending file 'new2.c'
Client disconnected

```

Figure 10: Client disconnected at server side