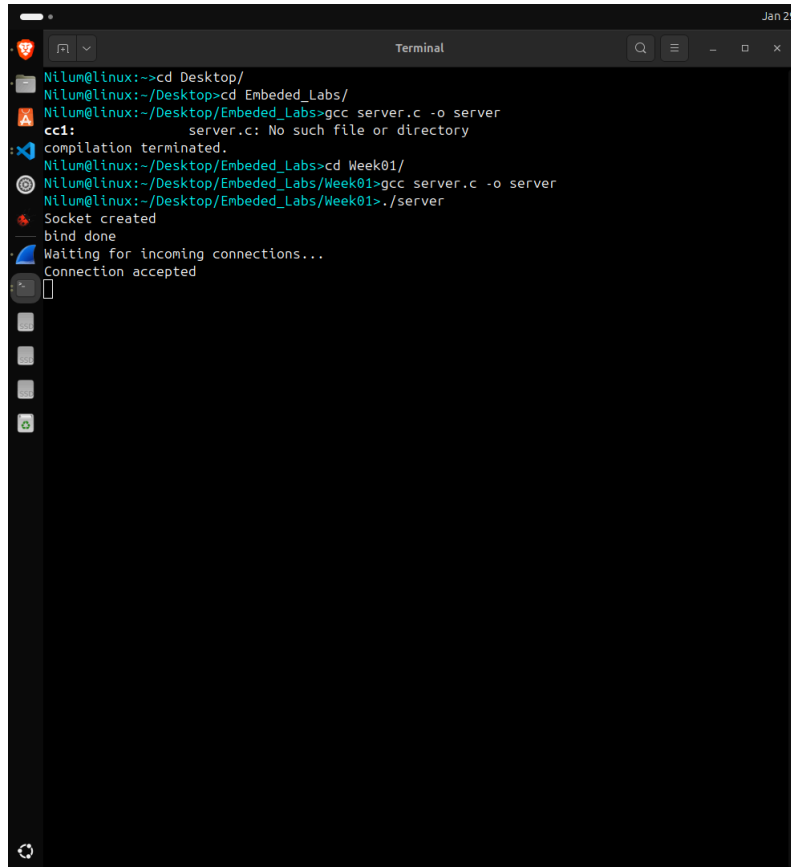


Client and Server Running Demo.
230415H
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A terminal window titled "Terminal" with a search bar and window controls. The terminal shows a user named Nilum@linux navigating through directories and compiling a C program. The output shows a successful compilation, followed by running the program which prints "Socket created", "bind done", "Waiting for incoming connections...", and "Connection accepted".

```
Nilum@linux:~>cd Desktop/  
Nilum@linux:~/Desktop>cd Embedded_Labs/  
Nilum@linux:~/Desktop/Embedded_Labs>gcc server.c -o server  
cc1:  server.c: No such file or directory  
compilation terminated.  
Nilum@linux:~/Desktop/Embedded_Labs>cd Week01/  
Nilum@linux:~/Desktop/Embedded_Labs/Week01>gcc server.c -o server  
Nilum@linux:~/Desktop/Embedded_Labs/Week01>./server  
Socket created  
bind done  
Waiting for incoming connections...  
Connection accepted  
[ ]
```

Fig: 01

This is the figure of the Server Side.
The server is successfully socket, bind done and connection accepted.

```
Jan 29 14:46 81%
Terminal
Nilum@linux:~>cd D
Desktop/  Documents/ Downloads/
Nilum@linux:~>cd Desktop/
Nilum@linux:~/Desktop>cd Embeded_Labs/
Nilum@linux:~/Desktop/Embeded_Labs>cd Week01/
Nilum@linux:~/Desktop/Embeded_Labs/Week01>gcc client.c -o client
Nilum@linux:~/Desktop/Embeded_Labs/Week01>./client
Socket created
Connected

Enter message: Hello
Server reply:
Hello
Enter message: Nilum
Server reply:
Nilum
Enter message: Im Nilum
Server reply:
Im
Enter message: Server reply:
Nilum
Enter message: 
```

Fig: 02

As you can see in the figure, the socket is created and connected. Then the client send some messages and returns some replies from the server.