**COMP 7005**

**Computer Networks & Protocols**

*Assignment-01*

*User Guide*

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[**Purpose** 3](#_Toc188772980)

[**Installation** 3](#_Toc188772981)

[Building 3](#_Toc188772982)

[Running 3](#_Toc188772983)

[**Command Line Arguments** 3](#_Toc188772984)

[Server 3](#_Toc188772985)

[Client 3](#_Toc188772986)

[**Examples** 4](#_Toc188772987)

# **Purpose**

This client/server application demonstrates inter-process communication using UNIX Domain Sockets. The server component accepts a parameter that acts as a key to encrypting content sent from the client using Ceaser Cipher Encryption. Upon encryption, the server sends the client the encrypted content back.

# **Installation**

Navigate to <https://learn.bcit.ca>. Download COMP7005-assign01-v1.zip and Extract the contents.

## Building

cd <To the Extracted Foler>/source

gcc ./client.c -o ./client

gcc ./server.c -o ./server

## Running

Run the server first by navigating to the terminal and typing

./server <shift value>

./client <File to encrypt>

# **Command Line Arguments**

The following configuration values can be set in <file>:

### Server

|  |  |
| --- | --- |
| **Variable** | **Purpose** |
| <Shift Value> | The number of positions by which each letter in the alphabet is shifted to encrypt the received file contents. |

### Client

|  |  |
| --- | --- |
| **Variable** | **Purpose** |
| <File name> | The content of the file be encrypted. |

# **Examples**

|  |  |
| --- | --- |
| Server | Client |
|  |  |
|  |  |