

COMP 7005

Assignment 2

User Guide

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Purpose

- A program that will have a client and server connected via TCP sockets and communicate. Client will send file content and server will send back the count for number of alphabetical values in the file content.

Installing

Prerequisites

Ensure you have Python 3.12.5 installed on your machine.

Obtaining

```
git clone https://github.com/AyyyTran/COMP7005\_Assign2.git
```

Running

```
cd /COMP7005_Assign2/source/src
```

```
python3 server.py --port 3000
```

```
python3 client.py --ip 192.168.1.76 --port 3000 --file  
testfilelarge.txt
```

Environment Variables

The following environment variables alter the behaviour of main:

Variable	Purpose

Configuration

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

Variable	Purpose

Command Line Arguments

Variable	Purpose
<file_path>	The path to the file whose content will be sent to server
<server_ip>	The IP address of the server to connect to
<port>	The port number for the TCP connection

Examples

Running the server

```
python3 server.py --port 3000
```

Running the client

```
python3 client.py --ip 192.168.1.76 --port 3000 --file testfile.txt
```