

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  
  
python server.py --port  
python client.py --ip --port --file
```

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
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Command Line Arguments

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

Examples

Running the server

```
python server.py --port 3000
```

Running the client

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