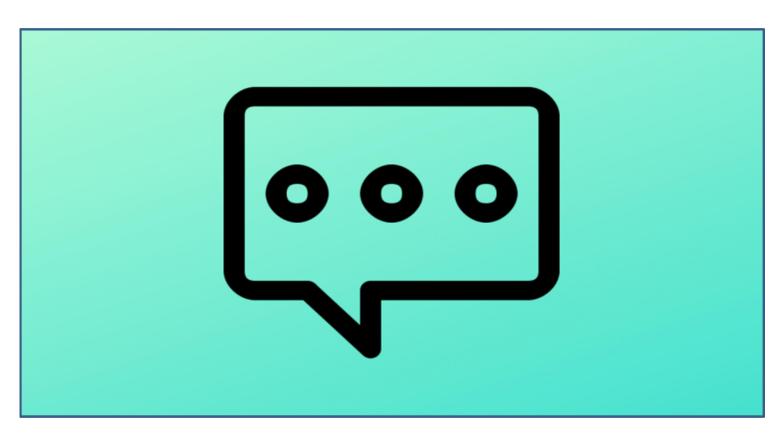


**SUBJECT**:-Computer Networks

**SUBJECT CODE:- CS602** 

PROJECT REPORT ON :- Chat Application using Python



Project By
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HOD of Computer Science Engineering department, UEM Kolkata. Thirdly I would love to thank our concerned subject teachers Sumit Anand Sir and other faculties for providing us with the project idea and necessary study material for the project.

## **Overview Of the Topic**

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### INTRODUCTION

#### 1. INTRODUCTION

Teleconferencing or Chatting, is a method of using technology to bring people and ideas "together" despite of the geographical barriers. The technology has been available for years but the acceptance it was quit recent. Our project is an example of a chat server. It is made up of 2 applications the client application, which runs on the user's Pc and server application, which runs on any Pc on the network. To start chatting client should get connected to server where they can practice two kinds of chatting, public one (message is broadcasted to all connected users) and private one (between any 2 users only) and during the last one security measures were taken.

## **System Requirements to run the Software:**

The software is developed using Python and as python is OS independent so it can be run on any OS

Like Windows, Linux, Mac OS. But the only drawback is that python should be installed in the system to run this software as it is not an executable file instead It is a python file and no installer is attached with the project.

Software Size: 1 Mb

OS: Windows, Linux, Mac

**Others**: It doesn't require a high-end system to run this software, it is able to run on any low

level system even.

#### **System Requirements:**

- \* Python 3.6 or greater
- \* Threading (inbuild in Python Standard Library)
- \* Sockets (inbuild in Python Standard Library)
- \* Tkinter install it via using 'pip install tkinter'

## **Development Environment:**

Programming Language Used: Python

Version: Python 3.6.0

Database: None

**Overview**: Tkinter builder has been used to develop the project. It is a GUI application which is made up of N Pytkinter Frames.

**Tkinter**: **Tkinter** is Python's de-facto standard GUI (Graphical User Interface) package. It is a thin object-oriented layer on top of Tcl/Tk. **Tkinter** is not the only GuiProgramming toolkit for Python. It is however the most commonly used one.

## **Tools used to develop the project:**

1: Pycharm: PyCharm is a dedicated Python Integrated Development Environment (IDE) providing a wide range of essential tools for Python developers, tightly integrated together to create a convenient environment for productive Python, web, and data science development.

**Software genre:** Integrated development environment.

Languages used: Python

# **Application Of the Software:**

Usage:

Execute the below from Windows command prompt/Linux Shell[\*\*](#footnote)

1. Test to make sure you have all the required dependencies at place. Typing

"python3 -m tkinter

should not error out. If it does, you have missing Tkinter module,
which needs to be installed.

2. Now, first start the server from [multiChatServer.py](multiChatServer.py)

""

python3 multiChatServer.py

3. Then, run the below to start one client from [multiChatClient.py](multiChatClient.py):

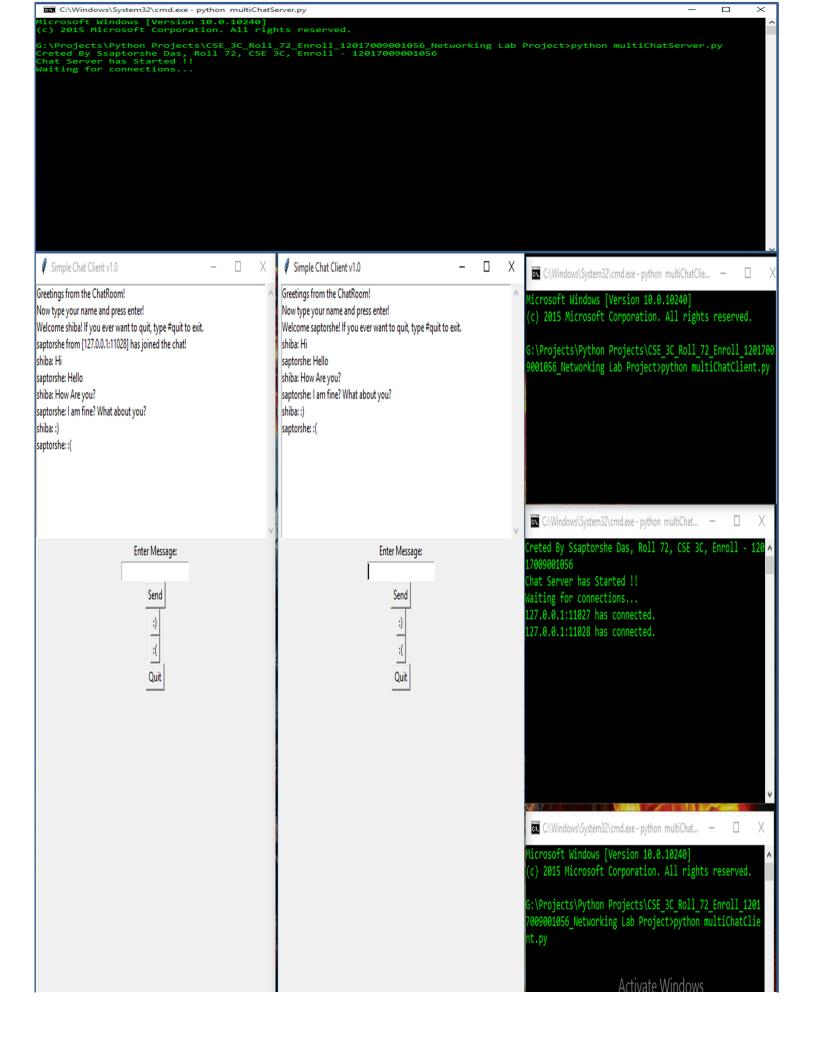
""

python3 multiChatClient.py

""

If you need more than one client, run the above command on seperate command windows.

**Github Link of the Code:** https://github.com/iamsaptorshe07/Chat-Application-Btech-3rd-year-networking-lab-project.git git push -u origin master



| REMARKS: |                     |
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