

# COMPUTER NETWORKS

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# **Assignment-3: Client-Server Communication**

### Server.py

```
import socket
serverSocket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
serverAddress = ('localhost', 9876)
serverSocket.bind(serverAddress)
serverSocket.listen(1)
print(f"Server is listening on {serverAddress[0]}:{serverAddress[1]}")
clientSocket, clientAddress = serverSocket.accept()
print(f"Accepted connection from {clientAddress[0]}:{clientAddress[1]}")
username = clientSocket.recv(1024).decode('utf-8')
print(f"Client's username is {username}.")
while True:
   clientData = clientSocket.recv(1024).decode('utf-8')
    if not clientData:
       break
   print(f"{username}: {clientData}")
    serverResponse = input("Server: ")
    clientSocket.send(serverResponse.encode('utf-8'))
clientSocket.close()
serverSocket.close()
```

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# Client.py

```
import socket
import sys
if len(sys.argv) != 3:
    sys.exit(1)
serverIP = sys.argv[1]
serverPort = int(sys.argv[2])
clientSocket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
serverSocket = (serverIP, serverPort)
clientSocket.connect(serverSocket)
username = input("Username: ")
clientSocket.send(username.encode('utf-8'))
while True:
    userInput = input(f"{username}: ")
    clientSocket.send(userInput.encode('utf-8'))
    serverResponse = clientSocket.recv(1024).decode('utf-8')
    print(f"Server: {serverResponse}")
clientSocket.close()
```

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# **Output:**



