

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Experiment Name: Socket Programming

Experiment No: 7

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1 Objective

The objective of the lab is to create two socket for communicating with each other. We will create two python file for that.

2 Procedure

2.1 Server.py

```
import socket
LOCALHOST=" 127.0.0.1"
PORT=8080
server=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
server.bind((LOCALHOST,PORT))
server.listen(1)
print("Server_started")
print("Waiting_for_client_Request..")
clientConnection, clientAddress=server.accept()
print("Connected_Client:_", clientAddress)
msg=,
while True:
    in_data=clientConnection.recv(1024)
    msg=in_data.decode()
    if msg=='bye':
        break
    print("From_Client:", msg)
    out_data=input()
    clientConnection.send(bytes(out_data, 'UTF-8'))
print("Client_Disconnected...")
clientConnection.close()
```

2.2 Client.py

```
import socket
SERVER="127.0.0.1"
PORT=8080
client=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
client.connect((SERVER,PORT))
client.sendall(bytes("This_is_from_Client",'UTF-8'))
while True:
    in_data=client.recv(1024)
    print("From_Server:_",in_data.decode())
    out_data=input()
    client.sendall(bytes(out_data,'UTF-8'))
    if out_data=='bye':
        break

client.close()
```

3 Result

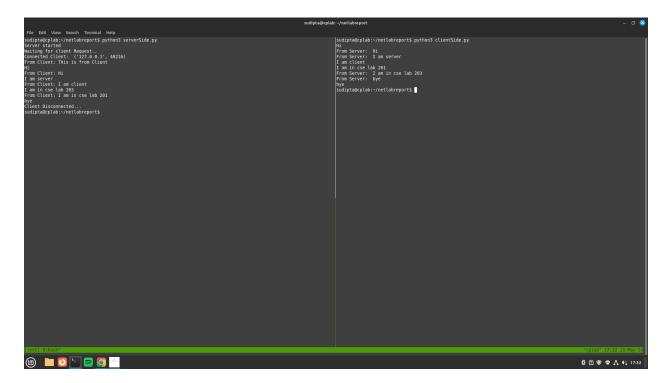


Figure 1: Communication between server and client