

# 3a.CREATION FOR ECHO CLIENT AND ECHO SERVER USING TCP SOCKETS

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## AIM

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To write a python program for creating Echo Client and Echo Server using TCP Sockets Links.

## ALGORITHM:

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1. Import the necessary modules in python
2. Create a socket connection to using the socket module.
3. Send message to the client and receive the message from the client using the Socket module in server .
4. Send and receive the message using the send function in socket.

## PROGRAM

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### Client

```
import socket
s=socket.socket()
s.connect(('localhost',8001))
while True:
    msg=input("Client > ")
    s.send(msg.encode())
    print("Server > ",s.recv(1024).decode())
```



### Server

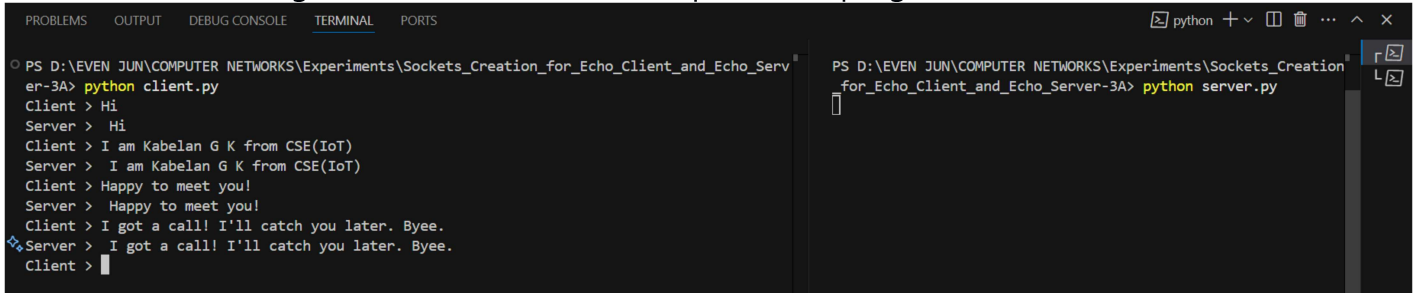
```
import socket
s=socket.socket()
s.bind(('localhost',8001))
s.listen(5)
c,addr=s.accept()
while True:
    ClientMessage=c.recv(1024).decode()
    c.send(ClientMessage.encode())
```



# OUTPUT

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Refer to the following screenshot to view the output of the program.



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\EVEN JUN\COMPUTER NETWORKS\Experiments\Sockets_Creation_for_Echo_Client_and_Echo_Server-3A> python client.py
Client > Hi
Server > Hi
Client > I am Kabelan G K from CSE(IoT)
Server > I am Kabelan G K from CSE(IoT)
Client > Happy to meet you!
Server > Happy to meet you!
Client > I got a call! I'll catch you later. Bye.
Server > I got a call! I'll catch you later. Bye.
Client >
```

```
PS D:\EVEN JUN\COMPUTER NETWORKS\Experiments\Sockets_Creation_for_Echo_Client_and_Echo_Server-3A> python server.py
```

# RESULT

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Thus, the python program for creating Echo Client and Echo Server using TCP Sockets Links was successfully created and executed.