

28/05/21
Expt 11

Implementation of echo client Server using Sockets

Aim:-
To implement an echo
client server
by using TCP/UDP sockets.
Server-side Algorithm:-

```
import socket  
server_socket = socket.socket(socket.AF_INET,  
                               socket.SOCK_STREAM)  
server_socket.bind((localhost, 12345))  
server_socket.listen(5)
```

```
print("Server is waiting for connection")  
conn, addr = server_socket.accept()  
print(f"Connected to {addr}")  
while True:  
    data = conn.recv(1024).decode()  
    if not data or data.lower() == 'exit':  
        print("Connection closed")
```

break

```
print(f"Received from client  
{data}")
```

```
conn.send(data.encode())
```

```
conn.close()
```

client - Sock
import socket
client - Socket
soccer
client - socket
while true
message
client
if message
break
data = conn
print(f"Client - {data}")
example
client -
Enter or
Echo
Enter or
Echo
Enter or
Echo
Enter or

client server using TCP
B. client server
set (socket -> NE)
(host, 12345)
or connection
accept()
addr[3])
decode()
lower() == 'Bye'
d.)

client
data3)
);

client - side algorithm:-

```
import socket
client = socket.socket(socket.AF_INET,
                       socket.SOCK_STREAM)
client.connect(('localhost', 12345))

while True:
    message = input("Enter message: ")
    client.send(message.encode())
    if message.lower() == 'Bye':
        break
    data = client.recv(1024).decode()
    print(f'Echo from server: {data}')
client.close()

Sample Inputs and Outputs:-
```

client side:-

```
Enter message: Hello Server
Echo from server: Hello Server
Enter message: How are you?
Echo from server: How are you?
Enter message: Bye
```

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Server side:-
Server is waiting for connection
Connected to (127.0.0.1, 58944)
Received from client: Hello Server
Received from client: How are you?
Connection closed.

Result:-

Implementation of Echo Client Server
Using TCP/IP Sockets have been completed