

UDP

TEXT TRANSFER

SERVER:-

```
import socket

server_socket = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
server_IP = 'localhost'
PORT_NO = 5600

server_socket.bind((server_IP, PORT_NO))
print("Waiting for Connection...")

while True:
    message, addr = server_socket.recvfrom(1024)
    message = message.decode('utf-8')

    if message.lower() == 'bye':
        print("\nExiting the connection")
        break

    print(f'Client ({addr}):", message)

    response = input("YOU = ")
    server_socket.sendto(response.encode('utf-8'), addr)

server_socket.close()
```

CLIENT:-

```
import socket

client_socket = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
server_IP = 'localhost'
PORT_NO = 5600

print("Connected to the server...")

while True:
    message = input("YOU = ")
    client_socket.sendto(message.encode('utf-8'), (server_IP, PORT_NO))

    if message.lower() == 'bye':
        print("\nExiting the connection")
        break

    response, addr = client_socket.recvfrom(1024)
    print("Server:", response.decode('utf-8'))

client_socket.close()
```

OUTPUT:-

SERVER:-

```
PS C:\Users\manis\OneDrive\Desktop\TE\CNS> python .\Server_UDP.py
Waiting for Connection...
Client (('127.0.0.1', 5600)): Hello, Server!
YOU = Hello, Client!
Client (('127.0.0.1', 5600)): How are you?
YOU = I am fine, thank you!
Client (('127.0.0.1', 5600)): bye
```

Exiting the connection

CLIENT:-

```
PS C:\Users\manis\OneDrive\Desktop\TE\CNS> python .\Client_UDP.py
Connected to the server..
YOU = Hello, Server!
Server: Hello, Client!
YOU = How are you?
Server: I am fine, thank you!
YOU = bye
```

Exiting the connection