## tcp server.py

```
import socket
HOST = '127.0.0.1' # Localhost
PORT = 65432
                   # Port to listen on
with socket.socket(socket.AF_INET, socket.SOCK_STREAM) as server_socket:
  server socket.bind((HOST, PORT))
  server_socket.listen()
  print(f"Server started. Listening on {HOST}:{PORT}...")
  conn, addr = server_socket.accept()
  with conn:
    print(f"Connected by {addr}")
    while True:
       data = conn.recv(1024)
       if not data:
         break
       print(f"Received: {data.decode()}")
       conn.sendall(data) # Echo the data back to the client
```

## tcp client.py

```
import socket
HOST = '127.0.0.1' # The server's hostname or IP address
PORT = 65432  # The port used by the server
with socket.socket(socket.AF_INET, socket.SOCK_STREAM) as client_socket:
    client_socket.connect((HOST, PORT))
    print("Connected to the server.")
    client_socket.sendall(b'Hello, server! This is a TCP message.')
    data = client_socket.recv(1024)
print(f''Received back: {data.decode()}")
```

