

Homework Assignments

➤ Homework #10

- Overview

- **Released date:** 11/29 (Fri.)
- **Due date:** 12/6 (Fri.)
- **Where to submit:** to e-class (<http://eclass.seoultech.ac.kr>)
 - Late submission is not allowed.
- **Assigned score:** 1 points

Refer to the python TCP Echo server code, implement a TCP Echo client with C code.

```
import socket

# Server configuration
HOST = '127.0.0.1' # Localhost
PORT = 12345      # Port to listen on

# Create a TCP/IP socket
with socket.socket(socket.AF_INET, socket.SOCK_STREAM) as server_socket:
    # Bind the socket to the address and port
    server_socket.bind((HOST, PORT))
    # Listen for incoming connections
    server_socket.listen()

    print(f"Server listening on {HOST}:{PORT}...")

    while True:
        # Wait for a connection
        client_socket, client_address = server_socket.accept()
        with client_socket:
            print(f"Connected by {client_address}")

            while True:
                # Receive the data from the client
                data = client_socket.recv(1024)
                if not data:
                    break # No more data from client, connection is closed

                # Echo the data back to the client
                client_socket.sendall(data)
                print(f"Echoed data: {data.decode('utf-8')}")

            print(f"Connection with {client_address} closed.")
```

- Submissions
 - C file