

# CS305B Lab4 Report

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## Code

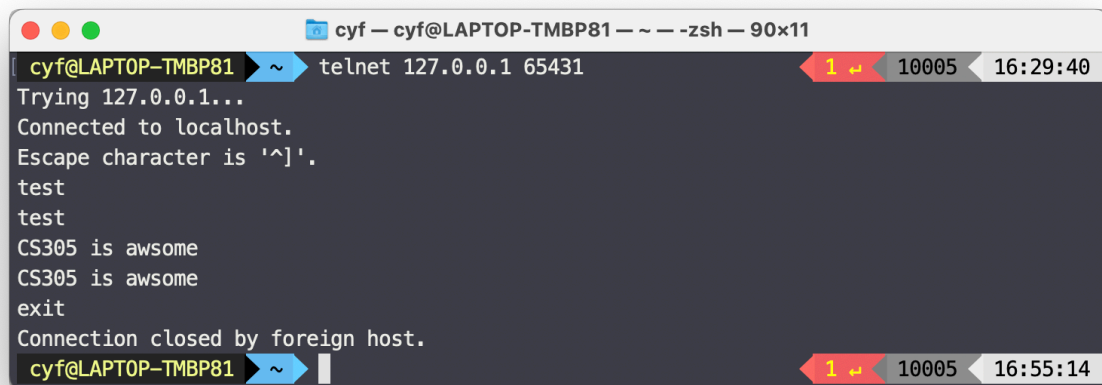
```
import socket

HOST = '127.0.0.1'
PORT = 65431

with socket.socket(socket.AF_INET, socket.SOCK_STREAM) as s:
    s.bind((HOST, PORT))
    s.listen()
    conn, addr = s.accept()
    with conn:
        print('Connected by', addr)
        while True:
            data = conn.recv(1024)
            if not data:
                break
            if data and data != b'exit\r\n':
                conn.sendall(data)
            else:
                conn.close()
                break
```

In this program, we use python to initiate a socket which binds 127.0.0.1:65431, then if we send the packet that not equal to `b'exit\r\n'`, the server will reply what we send back to the client.

## Execution screenshot



```
cyf — cyf@LAPTOP-TMBP81 — — -zsh — 90x11
cyf@LAPTOP-TMBP81 ~$ telnet 127.0.0.1 65431
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
test
test
CS305 is awesome
CS305 is awesome
exit
Connection closed by foreign host.
cyf@LAPTOP-TMBP81 ~$
```

As the screenshots shown above, when we send the text to the server via telnet, the server replies the same text. The server will terminate the connection if we send `exit`.