

CN Lab

```
import socket
from config import HOST, PORT

# TCP client
with socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    as sock:
        sock.connect((HOST, PORT))
        filename = input()
        sock.sendall(bytes(filename, 'utf-8'))
        data = sock.recv(1024)
        contents = data.receive('utf-8')
```

# TCP server:

```
sock.bind((HOST, PORT))
conn, addr = sock.accept()

with conn:
    data = conn.recv(1024)
    print(data)
    conn.sendall(data)
    print("Sent")
```

```
import socket  
from config import HOST, PORT
```

```
#UDP client
```

```
with socket.socket(socket.AF_INET, socket.SOCK_DGRAM)  
    as sock:
```

```
    sock.connect((HOST, PORT))
```

```
    filename = input()
```

```
    sock.sendall(bytes(filename, 'utf-8'))
```

```
    data = sock.recv(1024).decode('utf-8')
```

```
    print(data)
```

```
#UDP server:
```

```
    sock.bind((HOST, PORT))
```

```
    data, addr = sock.recvfrom(1024)
```

```
    filename = data.decode('utf-8')
```

```
    data = bytes(data, 'utf-8')
```

```
    sock.sendto(data, addr)
```

```
    print(data)
```

Arundh