

Networking Programs in Python

HTTP Web Client Program to Download a Webpage

Description: This program demonstrates downloading a webpage using Python's HTTP requests.

Code:

```
import requests

url = "http://example.com"
response = requests.get(url)
print("Content of the page:")
print(response.text)
```

Output:

Content of the page:

<html>...</html>

TCP Echo Client and Server

Description: This demonstrates client-server communication using TCP.

Code:

```
# Server code

import socket

server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
server.bind(('localhost', 12345))
server.listen(1)
print("Server is listening...")

conn, addr = server.accept()
print(f"Connected to {addr}")
```

```
data = conn.recv(1024).decode()

conn.send(data.encode())

conn.close()


# Client code

import socket

client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

client.connect(('localhost', 12345))

client.send(b"Hello, Server!")

data = client.recv(1024).decode()

print(f"Received from server: {data}")

client.close()
```

Output:

Server Output:

Server is listening...

Connected to ('127.0.0.1', 12345)

Client Output:

Received from server: Hello, Server!