

UDP File transfer

Server.py

```
from socket import *

serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(('127.0.0.1', serverPort))
print('The server is ready to receive')

while True:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode('utf-8')

    try:
        file = open(sentence, "r")
        content = file.read(2048)
        serverSocket.sendto(bytes(content, 'utf-8'), clientAddress)
        print('\nSent contents of', sentence)
        file.close()
    except FileNotFoundError:
        error_message = "File not found"
        serverSocket.sendto(bytes(error_message, 'utf-8'), clientAddress)
        print('\nFile not found:', sentence)
```

Client.py

```
from socket import *

serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
```

try:

```
sentence = input("\nEnter file name: ")
clientSocket.sendto(bytes(sentence, 'utf-8'), (serverName, serverPort))
filecontents, serverAddress = clientSocket.recvfrom(2048)

if filecontents.decode('utf-8') == "File not found":
    print("\nFile not found on the server.")
else:
    print("\nReply from Server:\n")
    print(filecontents.decode('utf-8'))
```

except Exception as e:

```
print(f"An error occurred: {str(e)}")
```

finally:

```
clientSocket.close()
```

Output

```
PS C:\Users\shrav\Searches\sercli> python Server.py
The Server is ready to receive

Sent contents of res.txt
The Server is ready to receive
█
```

```
PS C:\Users\shrav\Searches\sercli> python Client.py

Enter file name: res.txt

From Server:

Hi Hello How are you
PS C:\Users\shrav\Searches\sercli> █
```