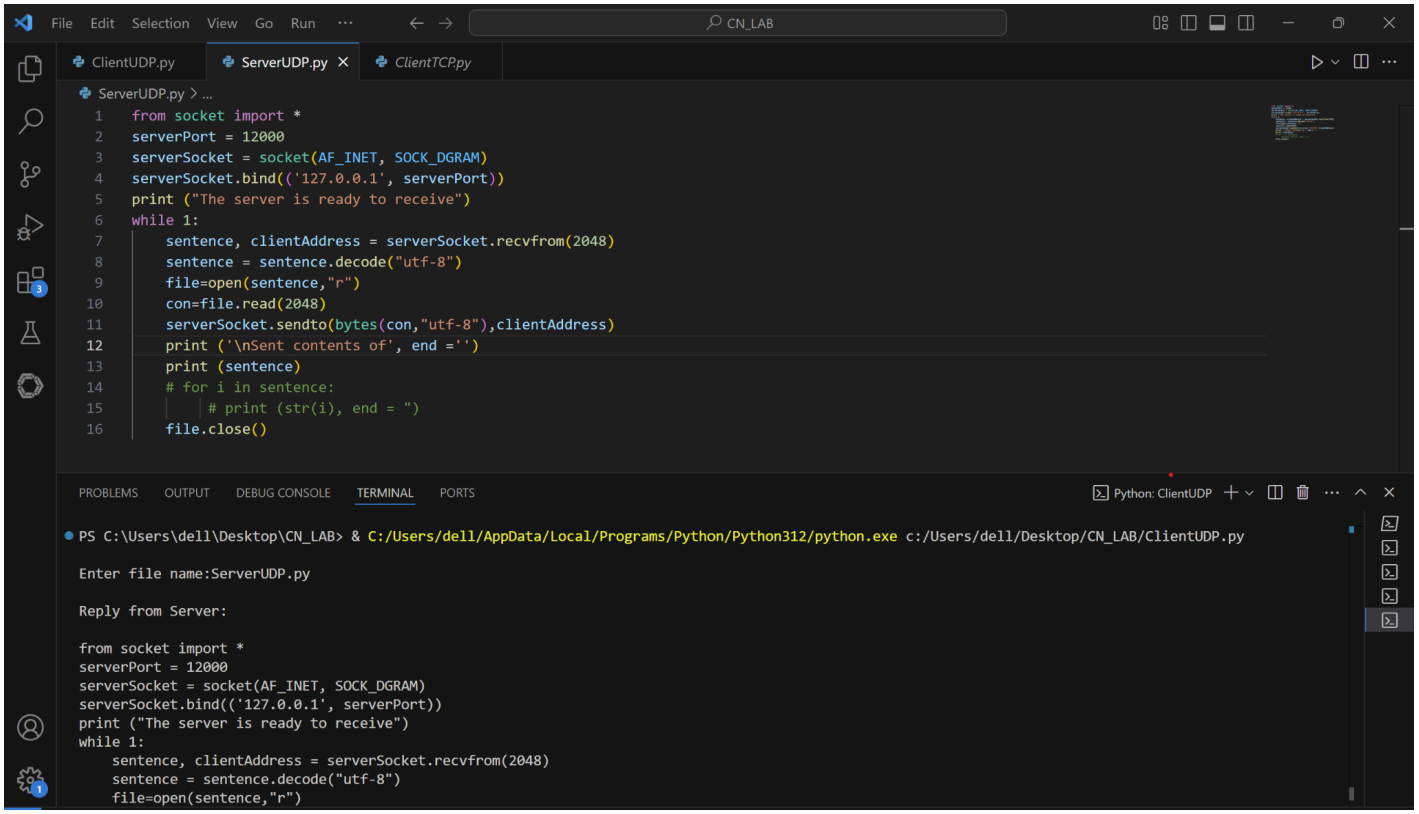
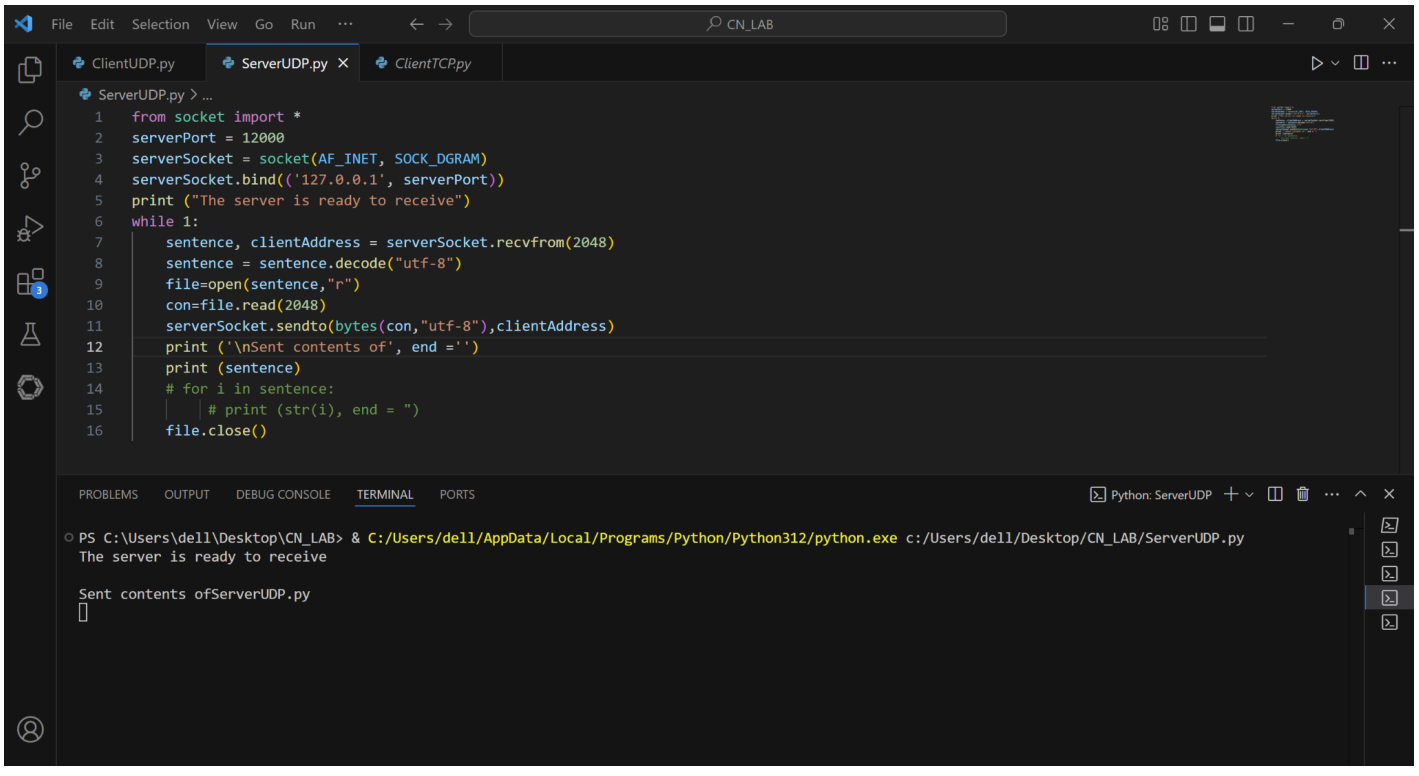

File Edit Selection View Go Run ···
CN_LAB
ClientUDP.py
ServerUDP.py
ClientTCP.py
ServerUDP.py > ...
1 from socket import *
2 serverPort = 12000
3 serverSocket = socket(AF_INET, SOCK_DGRAM)
4 serverSocket.bind(('127.0.0.1', serverPort))
5 print ("The server is ready to receive")
6 while 1:
7 sentence, clientAddress = serverSocket.recvfrom(2048)
8 sentence = sentence.decode("utf-8")
9 file=open(sentence,"r")
10 con=file.read(2048)
11 serverSocket.sendto(bytes(con,"utf-8"),clientAddress)
12 print ('\nSent contents of', end ='')
13 print (sentence)
14 # for i in sentence:
15 # print (str(i), end = '')
16 file.close()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python: ClientUDP
PS C:\Users\dell\Desktop\CN_LAB> & C:/Users/dell/AppData/Local/Programs/Python/Python312/python.exe c:/Users/dell/Desktop/CN_LAB/ClientUDP.py
Enter file name:ServerUDP.py
Reply from Server:
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 1:
sentence, clientAddress = serverSocket.recvfrom(2048)
sentence = sentence.decode("utf-8")
file=open(sentence,"r")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12 print ('\nSent contents of', end ='')
13 print (sentence)
14 # for i in sentence:
15 # print (str(i), end = '')
16 file.close()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python: ServerUDP
PS C:\Users\dell\Desktop\CN_LAB> & C:/Users/dell/AppData/Local/Programs/Python/Python312/python.exe c:/Users/dell/Desktop/CN_LAB/ServerUDP.py
The server is ready to receive
Sent contents ofServerUDP.py

EXPERIMENT-16

Using UDP sockets write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.

clientUDP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input("Enter file name:")
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName,
                                    serverPort))
fileContents, serverAddress = clientSocket.recvfrom(2048)
print("\n Reply from server:\n")
print(fileContents.decode("utf-8"))
for i in fileContents:
    print(str(i), end="")
clientSocket.close()
clientSocket.close()
```

serverUDP.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 1:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode("utf-8")
    file = open(sentence, "r")
    con = file.read(2048)
    serverSocket.sendto(bytes(con,"utf-8"), clientAddress)
    print("\n Sent contents of ", end=' ')
    print(sentence)
    file.close()
```