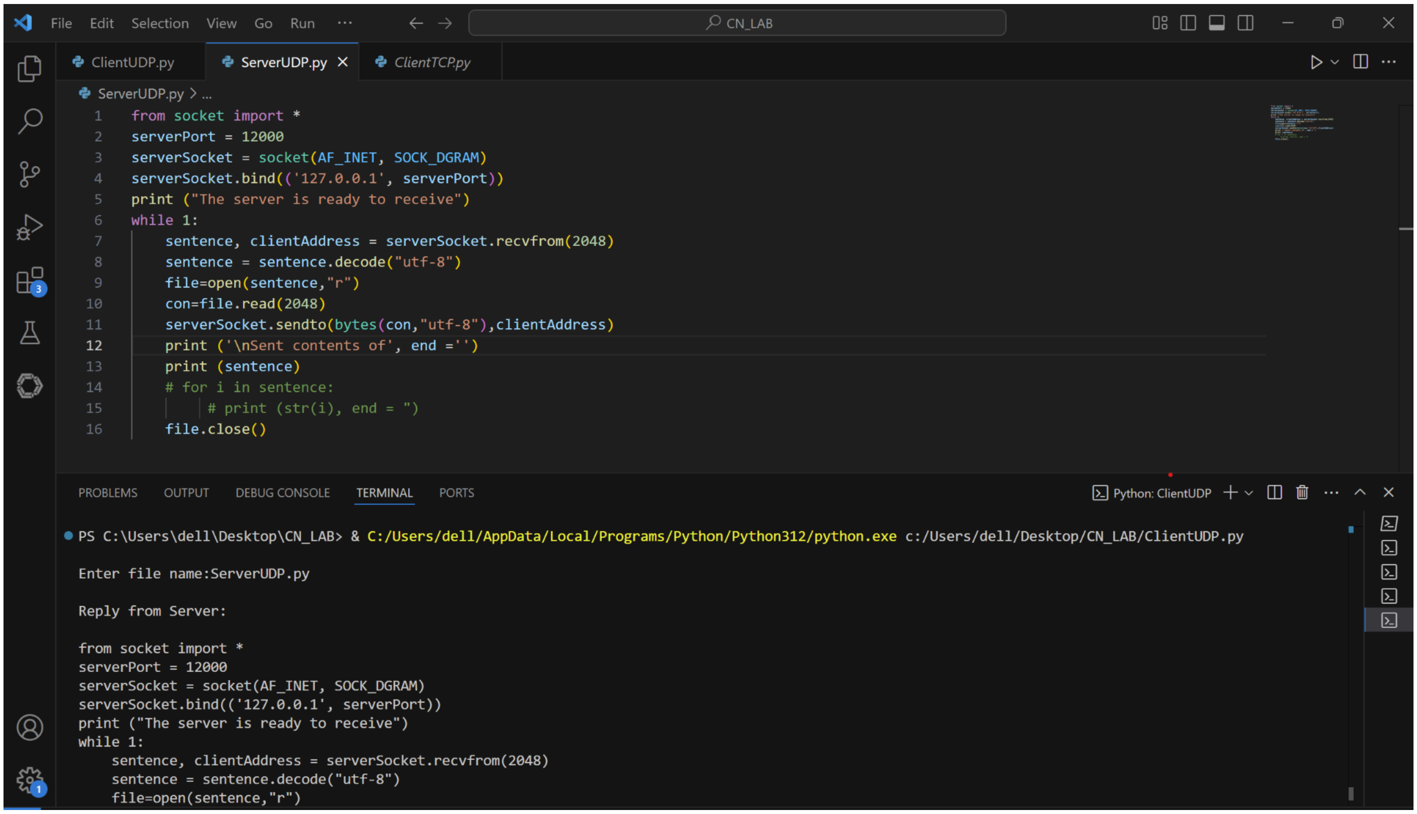


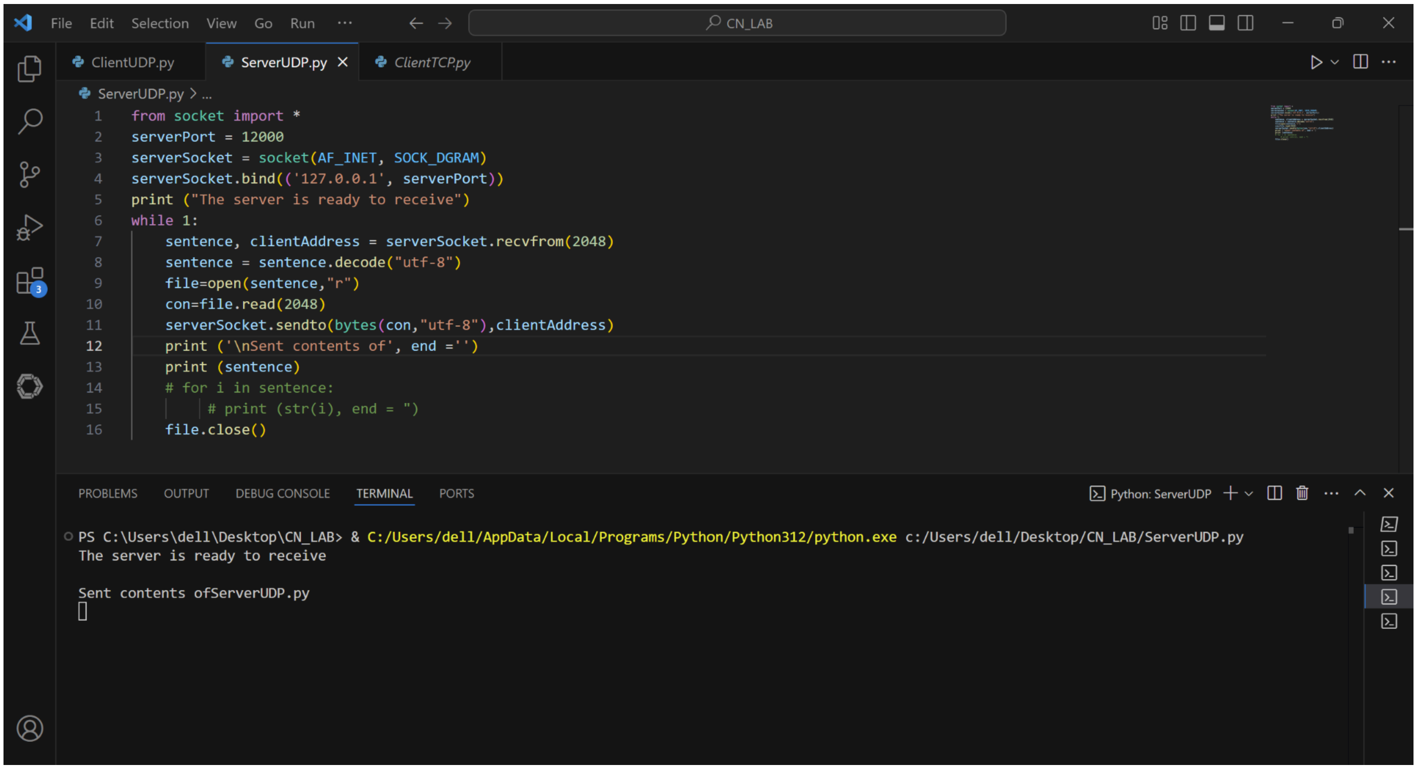
```python
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(('127.0.0.1', serverPort))
print ("The server is ready to receive")
while 1:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode("utf-8")
    file=open(sentence,"r")
    con=file.read(2048)
    serverSocket.sendto(bytes(con,"utf-8"),clientAddress)
    print ('\nSent contents of', end ='')
    print (sentence)
    # for i in sentence:
        # print (str(i), end = ")
    file.close()
```

```
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")
```



```python
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 ('\nSent contents of', end ='')
    print (sentence)
    # for i in sentence:
        # print (str(i), end = ")
    file.close()
```

```
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 ("\nEnter 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 recieve")
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()
```