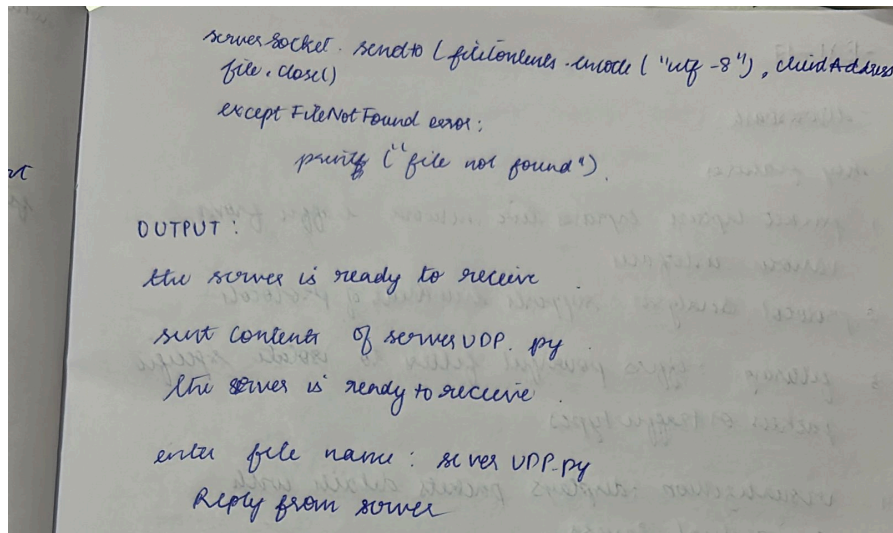


## EXP-16

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.

Observation:

```
- EXP - 16 -  
  
Q. Using UDP sockets, write a client server program  
to make client sending the file name & the server  
to send back the contents of the requested file if present  
  
CODE:  
clientUDP.py  
from socket import *  
serverName = "127.0.0.1"  
serverPort = 12000  
  
clientSocket = socket(AF_INET, SOCK_DGRAM)  
sentence = input('file name: ')  
clientSocket.sendto(sentence.encode('utf-8'), (serverName, serverPort))  
fileContents, serverAddress = clientSocket.recvfrom(2048)  
print("from server:", fileContents.decode())  
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 True:  
    sentence, clientAddress = serverSocket.recvfrom(2048)  
    try:  
        file = open(sentence.decode(), "r")  
        fileContents = file.read(2048)
```



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

```

## Clienttudp.py

```

from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)

sentence = input("\nEnter file name: ")

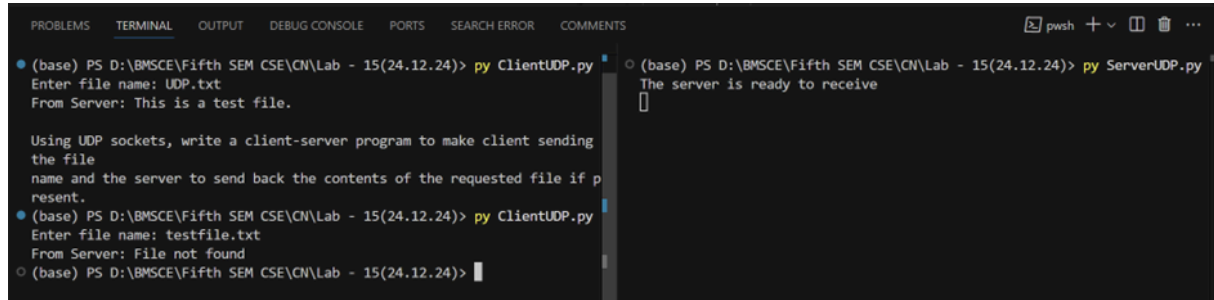
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName, serverPort))

filecontents,serverAddress = clientSocket.recvfrom(2048)

```

```
print ('\nReply from Server:\n')
print (filecontents.decode("utf-8"))
# for i in filecontents:
#     print(str(i), end = '')
clientSocket.close()
clientSocket.close()
```

Output:



```
PROBLEMS  TERMINAL  OUTPUT  DEBUG CONSOLE  PORTS  SEARCH ERROR  COMMENTS
(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> py ClientUDP.py
Enter file name: UDP.txt
From Server: This is a test file.

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 p
resent.
(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> py ClientUDP.py
Enter file name: testfile.txt
From Server: File not found
(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)>
(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> py ServerUDP.py
The server is ready to receive
```