25/12/24 Experiment - 16

8) 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("\n 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 i [str(i), end="")
clientSocket.close()
clientSocket.close()
```

serverUDP.py

```
from socket import*
ServerPort = 12000
Server Socket = socket (AF_INET, SOCK_DGRAM)
Server Socket.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)
# for i in sentence:
    # print(str(i), end = " ")
file.close()
```

serverUDP.py

```
The server is ready to receive

Sent contents of serverUDP.py
The server is ready to receive
```

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))
while 1:
    print("The server is ready to receive")
    sentence, clientAddress = serverSocket.
            recvfrom(2048)
    sentence = sentence.decode("utf-8")
```

```
file = open(sentence, "r")
l = file.read(2048)

serverSocket.sendto(bytes(l,"utf-8"),
        clientAddress)
print('In Sent contents of', end=' ')
#for i in sentence:
    #print (str(i), end=" ")
file.close()
```