WEEK 16

Using UDP sockets, write a client-server program to make the client send the file name and 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("\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()
```
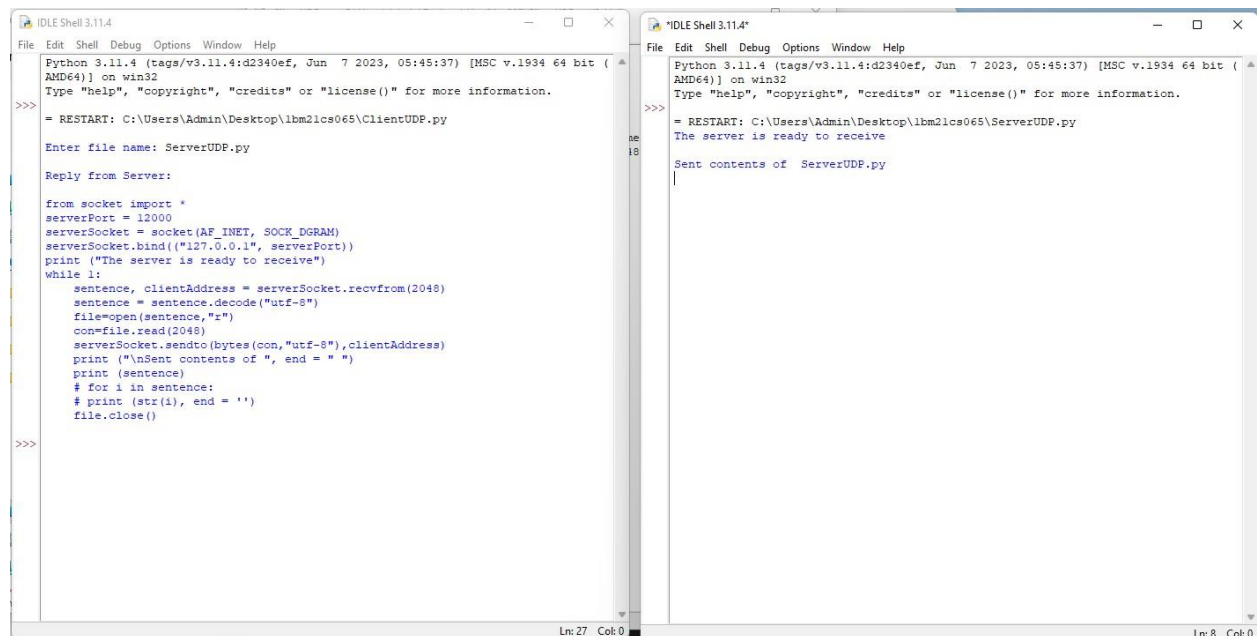
ServerUDP.py

```
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()
```

OUTPUT:

OBSERVATION:

Experiment – 16

Aim : 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 filename: ")
clientSocket.sendto(bytes(sentence, 'utf-8'), (serverName, serverPort))
filecontent, serverAddress = clientSocket.recvfrom(2048)
print("\n Reply from server: \n")
print(filecontent.decode('utf-8'))
clientSocket.close()
```

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 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 ("In sent content of ", end="")
print (sentence)
file.close().

output :

>>> Server.py
The server is ready to receive
Sent   content of ServerUDP.py.
The   server is   ready to receive.

>>> client.py

Enter file name. ServerUDP.py
Reply from server:
"content of ServerUDP.py.