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

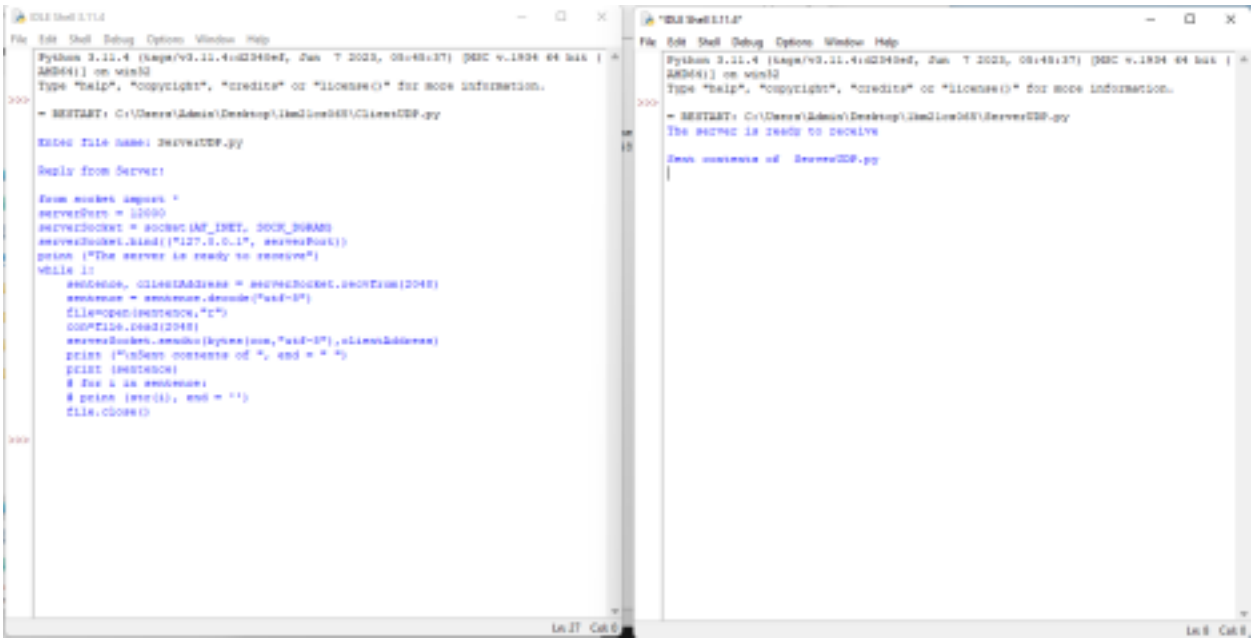
```
from socket import *
serverName = “127.0.0.1”
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input(“\nEnter file name: “)
clientSocket.sendto(bytes(sentence,”utf-8”),(serverName, serverPort))
filecontents,serverAddress = clientSocket.recvfrom(2048) print
(“\nReply from Server:\n”)
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:

2) 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.

→ client UDP.Py

```
from Socket import *
ServerName = '127.0.0.1'
ServerPort = 12000
ClientSocket = Socket (AF_INET, SOCK_DGRAM)
Sentence = input ("\n Enter the file name:");
ClientSocket.sendto (bytes (Sentence, "utf-8") (ServerName,
Sentence Port))
file contents, Server address = clientSocket.recvfrom (2048)
Print ("\n Reply from server : \n")
Print (file contents, decode ("utf-8"))
# for i in file contents:
# print (str (i), end="")
ClientSocket.close()
ClientSocket.close()
```

Server UDP.Py

```
from Socket import *
ServerPort = 12000
ServerSocket = socket (AF_INET, SOCK_DGRAM)

while 1:
Sentence, clientAddress = ServerSocket.recvfrom (2048)
Sentence = Sentence.decode ("utf-8")
file = open (sentence, "r")
```

```
con = fib.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()
```

Output

Server

The Server is ready to receive

Client

The contents requested by server is displayed

22/8