## LABORATORY PROGRAM - 4

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.

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	P4)
a 1	Using UDP sockets, write a client Server program
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(	ever to Send back contents of requested
	file of present.
	Ochient UDP. Py :-
7	ServerName= e127-0.0.1?
	CerverPort = 12000
C	lient Socket = Socket (Af_INET, Sock_DGRAM)
	Sentence zinput (Enter file name)
0	lient Socket send to (bytes (sentence, "utf-8"),
	Server Hame, Server port)
	file contents, server Address = client Socket. reculoum
	(2048)
	Stint (Rophy- From Server:)
,	mint (Reply- from Server:)
	for i in file confents.
	print(str(i), end=er)
(	=lientSocket.close()
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## Code: ClientUDP.py

```
from socket import *
serverName = "127.0.0.1" # Server address (localhost)
serverPort = 12000 # Port number where the server listens

# Create UDP socket
clientSocket = socket(AF_INET, SOCK_DGRAM)

# Ask user for file name to request
sentence = input("Enter file name: ")

# Send the file name to the server using UDP
clientSocket.sendto(sentence.encode("utf-8"), (serverName, serverPort))

# Receive file contents from the server
fileContents, serverAddress = clientSocket.recvfrom(2048)

# Print the file contents received from the server
print("From Server:", fileContents.decode())

# Close the UDP socket
clientSocket.close()
```

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Date:
Derver UDP. Py:
from socket import *
ServerName = <127.0.0.11
ServerPort= 12000
ServerSocket = Socket (Af-INET, SOCK-DGRAM)
(127.0.0,1', Serverfort)
print (The server is ready to recieve)
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while!;
sentence, client Address = Server Socket. recurron
(2048)
Sentence = Sentence decode (eutf-8)
file = open (sentence ex)
con sile read (2048)
Server Socket. Send to Obytog (con, cutf-81),
Chient Add 8288)
print (fo Sent contents of & Sentences)
for 1 in Sentence:
print(str(i), end=(1)
file.close()
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Observations:
-No connections is established.
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## **Code: ServerUDP.py**

```
from socket import *
serverPort = 12000 # Port number to listen on
# Create UDP socket
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort)) # Bind the socket to the server address and port
print("The server is ready to receive")
while True:
  # Receive file name from the client
  sentence, clientAddress = serverSocket.recvfrom(2048)
  # Try opening the file
  try:
    file = open(sentence.decode(), "r") # Open file in read mode
    fileContents = file.read(2048) # Read file content (up to 2048 bytes)
    serverSocket.sendto(fileContents.encode("utf-8"), clientAddress) # Send file contents to
client
    file.close()
  except FileNotFoundError:
    # Send error message if file not found
    serverSocket.sendto("File not found".encode("utf-8"), clientAddress)
```

## 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)>
```