

**Program 6: 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.**

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")
    l = file.read(2048)
    serverSocket.sendto(bytes(l, "utf-8"), clientAddress)
    print("Sent back to client", l)
    file.close()
```

Client.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()
```

## Output:

```
PS C:\Users\yathri\Desktop> & 'C:\Users\yathri\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\yathri\.vscode\extensions\ms-python.python-2022.20.2\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '49706' '--' 'c:\Users\yathri\Desktop\server_udp.py'
The server is ready to receive
Sent back to client hi
hello
welcome
to
bmsce

█
```

```
PS C:\Users\yathri\Desktop> & 'C:\Users\yathri\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\yathri\.vscode\extensions\ms-python.python-2022.20.2\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '49718' '--' 'c:\Users\yathri\Desktop\client_udp.py'
Enter file name: demo.txt
Reply from Server:
hi
hello
welcome
to
bmsce
PS C:\Users\yathri\Desktop> █
```