Program 4

Aim of the program: 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

Code:

```
ClientUDP.py
```

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)

sentence = input("Enter file name: ")
clientSocket.sendto(bytes(sentence, "utf-8"), (serverName, serverPort))
filecontents, serverAddress = clientSocket.recvfrom(2048)
print('From Server:', filecontents.decode("utf-8"))
clientSocket.close()
```

ServerUDP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF INET, SOCK DGRAM)
sentence = input("Enter file name: ")
clientSocket.sendto(bytes(sentence, "utf-8"), (serverName, serverPort))
filecontents, serverAddress = clientSocket.recvfrom(2048)
print('From Server:', filecontents.decode("utf-8"))
clientSocket.close()
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)
  file = open(sentence.decode("utf-8"), "r")
  1 = \text{file.read}(2048)
  serverSocket.sendto(bytes(1, "utf-8"), clientAddress)
  print("Sent back to client:", 1)
  file.close()
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Output:

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