Expt. 16 - 21/12/2024

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Aim: vong abl seikste write a charit-derus program to make chart rending the file warre is the dawn to make chart rending the file variety of originated file if present to word tack the contents of originated file if present the word tack the contents of originated file if present there was the contents of originated file if present there was the contents of originated file if present there is not the south of the INOT, sock DIPARPM	while 1. denterne; dient Address = denver Societ - recurpon (2048) enterne = unterne decode ("al -8") fel = open (senderre", 8") con = file - mad (2008) surer societ - sendro (bytes -con; "alf -8"), doctodors) prot ("19 sent contents of "; end = ") file dose()
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Code:

ServerUDP.py

```
from socket import *
serverPort=12000
serverSocket=socket(AF_INET,SOCK_DGRAM)
serverSocket.bind(("127.0.0.1",serverPort))
while 1:
print("The server is ready to receive")
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("\n Sent contents of "+sentence)
file.close()
```

ClientUDP.py

```
from socket import *
serverName="127.0.0.1"
serverPort=12000
clientSocket=socket(AF_INET,SOCK_DGRAM)
sentence=input("\n Enter File Name:")
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName,serverPort))
filecontents,serverAddress=clientSocket.recvfrom(2048)
print("\n Reply from server: \n")
print(filecontents.decode("utf-8"))
clientSocket.close()
```

Output:

```
ClientUDP.py
                               ♣ ServerUDP.py ×
   ServerUDP.py >
              serverPort=12000
             serverSocket=socket(AF_INET,SOCK_DGRAM)
serverSocket.bind(("127.0.0.1",serverPort))
              while 1:
                    print("The server is ready to receive")
                    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)
    11
                    print("\n Sent contents of "+sentence)
file.close()
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
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o (base) bhu@Bhuvanas-MacBook-Pro AI LAB % python ServerUDP.py The server is ready to receive
                                                                                                                          (base) bhu@Bhuvanas-MacBook-Pro AI LAB % python ClientUDP.py
  Sent contents of ServerUDP.py
The server is ready to receive
                                                                                                                                   Enter File Name: ServerUDP.pv
                                                                                                                                   Reply from server:
                                                                                                                             reply from server:
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    con=file.read(2048)
    serverSocket.sendto(bytes(con,"utf-8"),clientAddress)
    print("\n Sent contents of "+sentence)
    file.close()
    (base) bhu@Bhuvanas-MacBook-Pro AI LAB %
  ClientUDP.py X
ServerUDP.py
   ClientUDP.py > [a] serverAddress
              from socket import *
              serverName="127.0.0.1"
serverPort=12000
              clientSocket=socket(AF_INET,SOCK_DGRAM)
              sentence=input("\n Enter File Name:")
              \verb|clientSocket.sendto(bytes(sentence, "utf-8"), (serverName, serverPort))|\\
             filecontents, serverAddress=clientSocket.recvfrom(2048)
    11
              print("\n Reply from server: \n'
              print(filecontents.decode("utf-8"))
    13
              clientSocket.close()
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                            >_ zsh
o (base) bhu@Bhuvanas-MacBook-Pro AI LAB % python ServerUDP.py
                                                                                                                                • (base) bhu@Bhuvanas-MacBook-Pro AI LAB % python ClientUDP.py
   The server is ready to receive
                                                                                                                                       Enter File Name: ServerUDP.pv
  Sent contents of ServerUDP.py
The server is ready to receive
                                                                                                                                       Reply from server:
                                                                                                                                  Repty Trom server:

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sentence=sentence.decode("utf-8")
file=open(sentence, "r")
con=file.read(2048)
serverSocket.sendto(bytes(con, "utf-8"),clientAddress)
print("\n Sent contents of "+sentence)
file.close()
(base) bhu@Bhuvanas-MacBook-Pro AI LAB % []
```