**TCP/IP**

**Code:**

**Server:**

from socket import \*

from threading import Thread

def start\_server():

serverName = "127.0.0.1"

serverPort = 12000

serverSocket = socket(AF\_INET, SOCK\_STREAM)

serverSocket.bind((serverName, serverPort))

serverSocket.listen(1)

print("The server is ready to receive")

while True:

connectionSocket, addr = serverSocket.accept()

print(f"Connection from {addr}")

sentence = connectionSocket.recv(1024).decode()

try:

with open(sentence, "r") as file:

l = file.read(1024)

connectionSocket.send(l.encode())

except FileNotFoundError:

connectionSocket.send("File not found.".encode())

connectionSocket.close()

# Run the server in a separate thread

server\_thread = Thread(target=start\_server, daemon=True)

server\_thread.start()

**Client:**

from socket import \*

serverName = "127.0.0.1"

serverPort = 12000

clientSocket = socket(AF\_INET, SOCK\_STREAM)

clientSocket.connect((serverName, serverPort))

# Prompt for the filename

sentence = input("Enter the file name: ")

clientSocket.send(sentence.encode()

# Receive file content or error message

filecontents = clientSocket.recv(1024).decode()

print('From Server:', filecontents)

clientSocket.close()

**Output:**



