LABORATORY PROGRAM – 3

Using TCP/IP 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.

	the server to send back the contents of the requested file if present.
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	Using TCP/IP rockets, write a client-Server
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	and the Server to Send back the contents of
	requested file if present.
	Oclient TCP.py:
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	print (Infrom Server: In)
	print(filecontents)
	client Socket. close()
	Output:
	python Server TCP.py python Client
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	(2) Connection established with Sample. txt
	(127,001, 60477) (5) from Sorver-
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Code: Client.py

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

Create TCP socket
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort)) # Connect to server

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

Send file name to server
clientSocket.send(sentence.encode())

Receive file contents from server
filecontents = clientSocket.recv(1024).decode()
print('From Server:', filecontents)

Close the connection clientSocket.close()

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2) ServerTCP. py
from Socket import * Server Name = 127.0.0.17
Server Name = 127.0.0.17
Server Port = 12000
ServerSocket=Socket(Af_INET, Sock_STREAM)
ServerSocket.bind (ServerName, Serverlost)
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while (;
print (The Server is gready to recient)
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1024 - vo. of bytes that the Server will tay to
Sand at oncersom Socket.

Code: Server.py

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from socket import *
serverName = "127.0.0.1" # Server address (localhost)
serverPort = 12000 # Port number to listen on
# Create TCP socket
serverSocket = socket(AF INET, SOCK STREAM)
serverSocket.bind((serverName, serverPort)) # Bind socket to the address and port
serverSocket.listen(1) # Listen for 1 connection
print("The server is ready to receive")
while True:
  # Accept a connection
  connectionSocket, addr = serverSocket.accept()
  # Receive the file name from the client
  sentence = connectionSocket.recv(1024).decode()
  # Try opening the file
    file = open(sentence, "r") # Open file in read mode
    fileContents = file.read(1024) # Read file content (up to 1024 bytes)
    connectionSocket.send(fileContents.encode()) # Send file contents to client
    file.close()
  except FileNotFoundError:
    # Send error message if file not found
    connectionSocket.send("File not found".encode())
  # Close the connection
  connectionSocket.close()
```

Output

