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1BM18CS007.

CN - Lab 10

Date:
P. No:

December 22, 20.

Batch B1.

5 a.

TCP/IP

Client side

```
from socket import *
serverName = '127.0.0.1'
serverPort = 25109
clientSocket = socket (AF_INET, SOCK_STREAM)
clientSocket.connect ((serverName, serverPort))
sentence = input ('enter file name \n')
clientSocket.send (sentence.encode ())
filecontents = clientsocket.recv (1024).decode ()
print ('content sent by server \n':', filecontents)
clientSocket.close ()
```

server side:

```
from socket import *

serverName = '127.0.0.0.1'
serverPort = 25109
serversocket = socket (AF_INET, SOCK_STREAM)
serverSocket.bind ((servername, serverPort))
serverSocket.listen (1)
print ("server is ready to receive : TCP\n")
while 1 :
    connectionSocket, addr = ServerSocket.accept ()
    print ("client has been connected from : ", addr)
    sentence = connectionSocket.recv (1024).decode ()
    file = open (sentence, "r")
    l = file.read (1024)
```

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connection socket.send(1.encode())
file.close()
connection socket.close()

UDP

client side :-

```
from socket import *
serverName = "127.0.0.1"
serverPort = 65198
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('file contents from Server :', fileContents)
clientSocket.close()
```

Server side :-

```
from socket import *
serverPort = 65198
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind("127.0.0.1", serverPort)
print("server is ready to receive : UDP")
while 1 :
    sentence, clientAddress = serverSocket.recvfrom(2048)
    file = open(sentence, "r")
    l = file.read(2048)
```

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```
        serverSocket.sendto(bytes(i, "utf-8"), clientAddr)
        print("sent back to client", i)
file.close()
```