torsider a student requesting for document from a processor and Q1) professor sending the file to student Professor and student or his different nodes. Write a program to istablish wonethin using TLP probotal

Soln. Jep. student.py

import socket, AF_INET, SOCK_STREAM

ASSESSED HERSEN

STANSON MONTH

def main():

SISOURCE (AF-INET, SOCK-STREAM) print ("TCP SOCKET: STUDENT")

MEADER CIZE = 10

in 2 47. 156.76

Port = 1234

3. connect- ((ip, port-))

print ("Client unnexted to Jerver")

request = input l'Enter file name : ")

s. send (bytes (request-, 'ut f-8'))

print (f"Request for contents of file: (request) sent.")

new-mig = True

" KNOWERS full mag = "

while True:

response = 5. reco (SU)

response = response decode ('utf-8')

if new-mag: mig lon : int (response [: HEADERSIME])

new-msg = Faloe

Jullings + = response

it len (full msg) - HEADERSIZE == msg-len:

print (" - " +10)

print (f" Contents of file & request): ")

print (Juling THEADERSIZE:))

pant "- " x10)

print ("lontent Reviewed ")

J. Nose ()

print ("Connection Terminated.")

break.

- MARAGAS

TCP-profesor. py

from sochet import sochet, AT-INET, SOCK-STREAM

S= jocket (AF- INET, SOLK-STREAM)

print ("TLP SOLKET: PROFESSOR")

ip = ** 143.247, 156.76

purt = 1234

S. bind (ig.port)

J. Listen (4)

print (f "Server is up, listening at part: sports")

chile True:

client socket, client add = s.accept()

paint (f" Client with Achientadary wanceted .")

rquest = dientsocket. reev (1024)

request = request-decode ('uff-8')

print cf" Request for file water g : trequest's Reviews

My:

with open (request, "r") as fd:

wnterb = fd.read

print ("Request Processed")

except:

unterb e "Request not justilled. No file

print (" Request cannot be pullilled.

3

Hobayall

msg = f" 1 len Contents): < 1 HEADER SIZE 13" + wortents

client socket send (bytes (msg, alt-8'))

print (f" Response sent to & client addr 3")

print ("-" x10)