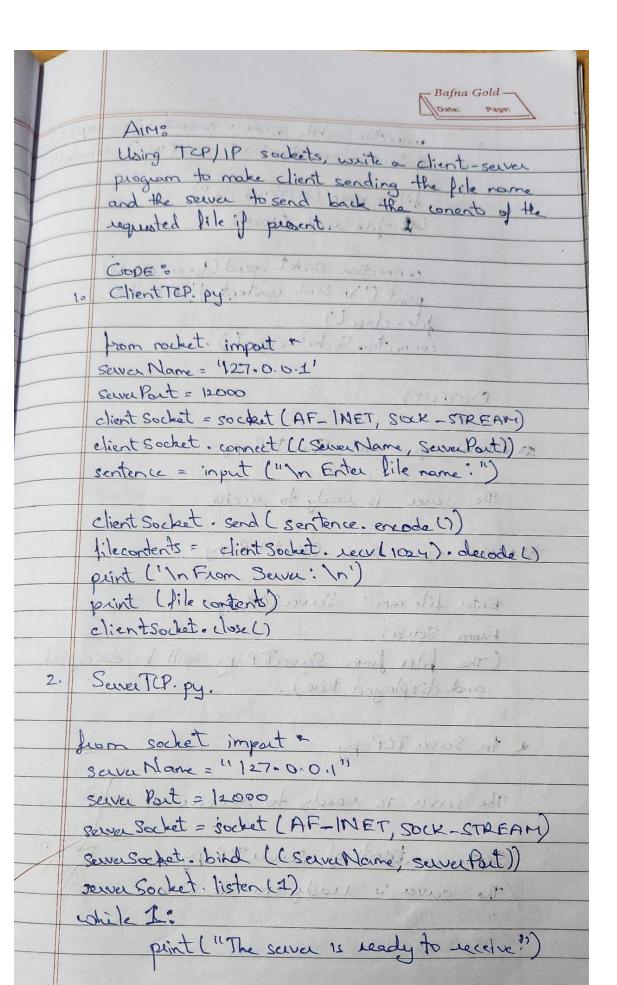
CYCLE 2

AIM:

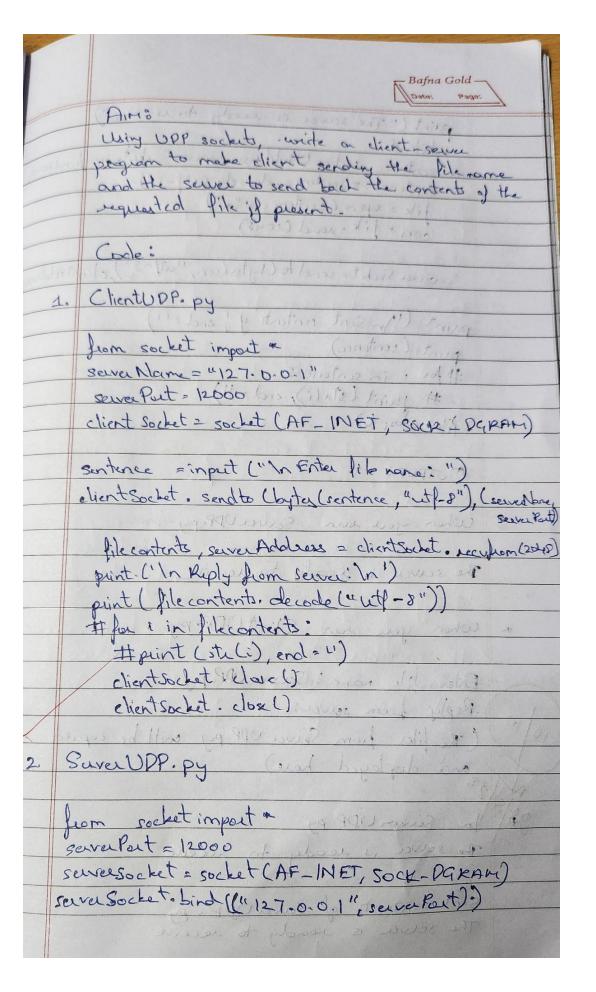
Using TCP/IP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.

Using UDP 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.

PROGRAM:



connection Sochet, adole 2 server Sochet: accept. connection Socket, and het vecu (1024). decode lile: = open (sertence """) La = file road (1024) del holar correction Socket. send (1. encode (1)) print ('In Sent conetents of + sentence fole close () connection Sochet close (). 1200001 mold cuis OUTPUT: COURS = Station 1941 - 1942 fresh & When you can SoweiTCP py. 124002 7,50% (" man stil estat (") tugai - wantow The sense is ready to receive (O shows sendones) book tasks as traited 20 Lohen your hun Chient TEP: py distant (a/: suce maxim/') tries Enter lile name: Server TCP. py still to From Serve: () sed . toloches: (The files from ServerTP py will be discopied * In Server TCP. py tropped Jakon The server is ready to receive chet = socket (AF-1NFT, Sock- Trainer) Sent contant of Serie TCP. py The server is ready to receive in wint ("The server is searly to service



print ("The server is ready to receive") while 1: chient Address = server Socket, sucr from Box rentence = sentence decade ("utf-p") lile = open (sentence; "") con = lik. read (2048) server Socket - send to (bytes (con, "wit - 8"), client Add print (1) sent contents of ; and = (1) punt (sentence) a tropped Sodoor mail # for i in sentence = a toll and a super Course Piles chose () (1) 111) felower to both troits Outputs of strand of trapica weatons (" stu", sentine) isted others, tologetrisis t When you wer Server UDP. py money of the State a contract one that es il The server is ready to receive + (("6-the") shows are it in oteros elil) + when you run Chient UDP- py (1 = 1543 () stee Tring # Enter like Kane: Server UPP. py Reply from sever: (sols to set and) (The files from Server UPP-py will be copied and displayed here) 19.590 mis In Server UPP. py togenitaling The selver is ready to receive to sundesocket & socket (Ar-INET) Sock-Parker Sent contents of SaverUDP. De The serve is ready to receive

PROGRAM:

1.

ClientTCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence = input("\nEnter file name: ")
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print ("\nFrom Server:\n")
print(filecontents)
clientSocket.close()
```

ServerTCP.py

connectionSocket.close()

```
from socket import *
serverName="127.0.0.1"
serverPort = 12000
serverSocket = socket(AF_INET,SOCK_STREAM)
serverSocket.bind((serverName,serverPort))
serverSocket.listen(1)
while 1:
print ("The server is ready to receive")
connectionSocket, addr = serverSocket.accept()
sentence = connectionSocket.recv(1024).decode()
file=open(sentence,"r")

I=file.read(1024)
connectionSocket.send(I.encode())
print ('\ nSent contents of '+ sentence)
file.close()
```

```
2.
ClientUDP.py
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input("\nEnter file name: ")
clientSocket.sendto(bytes(sentence,"utf-8",(serverName, serverPort))
filecontents, serverAddress = clientSocket.recvfrom(2048)
print ("\nReply from Server:\n")
print (filecontents.decode("utf-8"))
# for i in filecontents:
# print(str(i), end = ")
clientSocket.close()
clientSocket.close()
ServerUDP.py
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))
print ("The server is ready to receive")
while 1:
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 ("\nSent contents of ", end = ")
print (sentence)
# for i in sentence:
# print (str(i), end = ")
file.close()
```

Output:

