

COMPUTER NETWORKS

LAB OBSERVATION Shashank M S – 1BM21CS201

Question: 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.

Code:

Server.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()
```

Client.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'))clientSocket.close()  
clientSocket.close()
```

Output:

