

## LAB OBSERVATION

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**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:**

