

Lab: Week 10

TCP / IP Socket.

Exp 5:

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

Code: Client:

```

from socket import *
server name = 'DESKTOP-9CJQB77'
server port = 12530
client socket = socket (AF_INET, SOCK_STREAM)
client socket . connect ( ('Server Name', server port))
sentence = input ("Enter the name ");
client socket . send (sentence.encode ())
print ("From server\n");
print (From server, file contents)
client socket . close()

```

Server:

```

from socket import *
server name = 'DESKTOP-9CJQB77'
server port = 12530
server socket = socket (AF_INET, SOCK_STREAM)
server socket . bind (('Server Name', server port))
server socket . listen (1)
print ("The server is ready to receive").

```

while (1):

```

connection socket, addr = server socket . accept()
sentence = connection socket . recv (1024)
file = open (sentence, "r")

```

```

r = file.read(1024)
connection.Socket.send(l.encode())
file.close()
connection.Socket.close()

```

OUTPUT:

create a file a.txt

>> Hello Iam Imadkh

Running Server

Server - 1)

```

HOST = '0.0.0.0'
PORT = 8080
server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
server.bind((HOST, PORT))
server.listen()
while True:
    client, address = server.accept()
    client.send('Hello Iam Imadkh'.encode())
    client.close()

```

Running Client

Client - 1)

```

HOST = '0.0.0.0'
PORT = 8080
client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
client.connect((HOST, PORT))
data = client.recv(1024)
print(data.decode())

```

Running Server