

# 3c.CREATION FOR FILE TRANSFER USING TCP SOCKETS

## AIM

To write a python program for creating File Transfer using TCP Sockets Links

## ALGORITHM:

1. Import the necessary python modules.
2. Create a socket connection using socket module.
3. Send the message to write into the file to the client file.
4. Open the file and then send it to the client in byte format.
5. In the client side receive the file from server and then write the content into it.

## PROGRAM

CLIENT:

```
import socket
s = socket.socket()
host = socket.gethostname()
port = 60000
s.connect((host, port))
s.send("Hello server!".encode())
with open('received_file', 'wb') as f:
    while True:
        print('receiving data...')
        data = s.recv(1024)
        print('data=%s', (data))
        if not data:
            break
        f.write(data)
f.close()
print('Successfully get the file')
s.close()
print('connection closed')
```

SERVER:

```
import socket
port = 60000
s = socket.socket()
host = socket.gethostname()
s.bind((host, port))
s.listen(5)
while True:
    conn, addr = s.accept()
```



```

data = conn.recv(1024)
print('Server received', repr(data))
filename='mytext.txt'
f = open(filename,'rb')
l = f.read(1024)
while (l):
    conn.send(l)
    print('Sent ',repr(l))
    l = f.read(1024)
f.close()
print('Done sending')
conn.send('Thank you for connecting'.encode())
conn.close()

```

## OUTPUT

```

PS C:\Users\admin\Computer networks\EXP-3c> & 'c:\Users\admin\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.11_qbz5n2kfra8p0\python.exe' 'c:\Users\admin\.vscode\extensions\ms-python.debugpy-2024.4.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '57935' '--' 'c:\Users\admin\Computer networks\EXP-3c\client.py'
receiving data...
data=%s b'Thank you for connecting'
data=%s b''
Successfully received the file
connection closed
PS C:\Users\admin\Computer networks\EXP-3c>

PS C:\Users\admin\Computer networks\EXP-3c> & 'c:\Users\admin\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.11_qbz5n2kfra8p0\python.exe' 'c:\Users\admin\.vscode\extensions\ms-python.debugpy-2024.4.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '57929' '--' 'c:\Users\admin\Computer networks\EXP-3c\server.py'
Server listening on port 60000
Connected to ('192.168.211.79', 57937)
Server received b'Hello server!'
Done sending

```

## RESULT

Thus, the python program for creating File Transfer using TCP Sockets Links was successfully created and executed.

