**# Name : Rohit Telgote**

**# PRN : 1941054**

**# Batch : B2**

**# Aim :** Implement RPC mechanism for a file transfer across a network.

**Program**

**ftp\_client.py**

*import os*

*import sys*

*import xmlrpc.client*

*#Put your server IP here*

*url = 'http://{}:{}'.format("192.168.1.9", 8000)*

*###server\_proxy = xmlrpclib.Server(url)*

*client\_server\_proxy = xmlrpc.client.ServerProxy(url)*

*curDir = os.path.dirname(os.path.realpath(\_\_file\_\_))*

*filename = input("File Name : ")*

*fpn = curDir + '/' + filename*

*print(' filename -> ({})'.format(filename))*

*print(' fpn -> ({})'.format(fpn))*

*if not os.path.exists(fpn):*

*print('Missing file -> ({})'.format(fpn))*

*print("Transfer Unsuccessfull")*

*sys.exit(1)*

*with open(fpn, "rb") as handle:*

*binary\_data = xmlrpc.client.Binary(handle.read())*

*client\_server\_proxy.server\_receive\_file(binary\_data, filename)*

*print("FIle transmitted successfully..!")*

**ftp\_server.py**

*from* xmlrpc.server *import* SimpleXMLRPCServer

*import* os

*# Put in your server IP here*

server = SimpleXMLRPCServer(("192.168.1.9",8000))

def server\_receive\_file(*arg*, *filename*):

    curDir = os.path.dirname(os.path.realpath(\_\_file\_\_))

    output\_file\_path = curDir + '/' + 'output.txt'

    print('output\_file\_path -> ({})'.format(output\_file\_path))

*with* open(output\_file\_path, "wb") *as* handle:

        handle.write(arg.data)

        print('Output file: {}'.format(output\_file\_path))

*return* True

server.register\_function(server\_receive\_file, 'server\_receive\_file')

print('Server is running ...!')

server.serve\_forever()

**Output**





