Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Department of Information Technology

Computer Networks Lab
EVEN SEMESTER AY 2021-22

Submitted by

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<h1 align="center">Department of Information Technology</h1>
<p align="center">2021-22</p>

Experiment Number: 6

Experiment Name: Implement FTP and SMTP server in CISCO packet tracer to observe.

a. File transmission in the local network
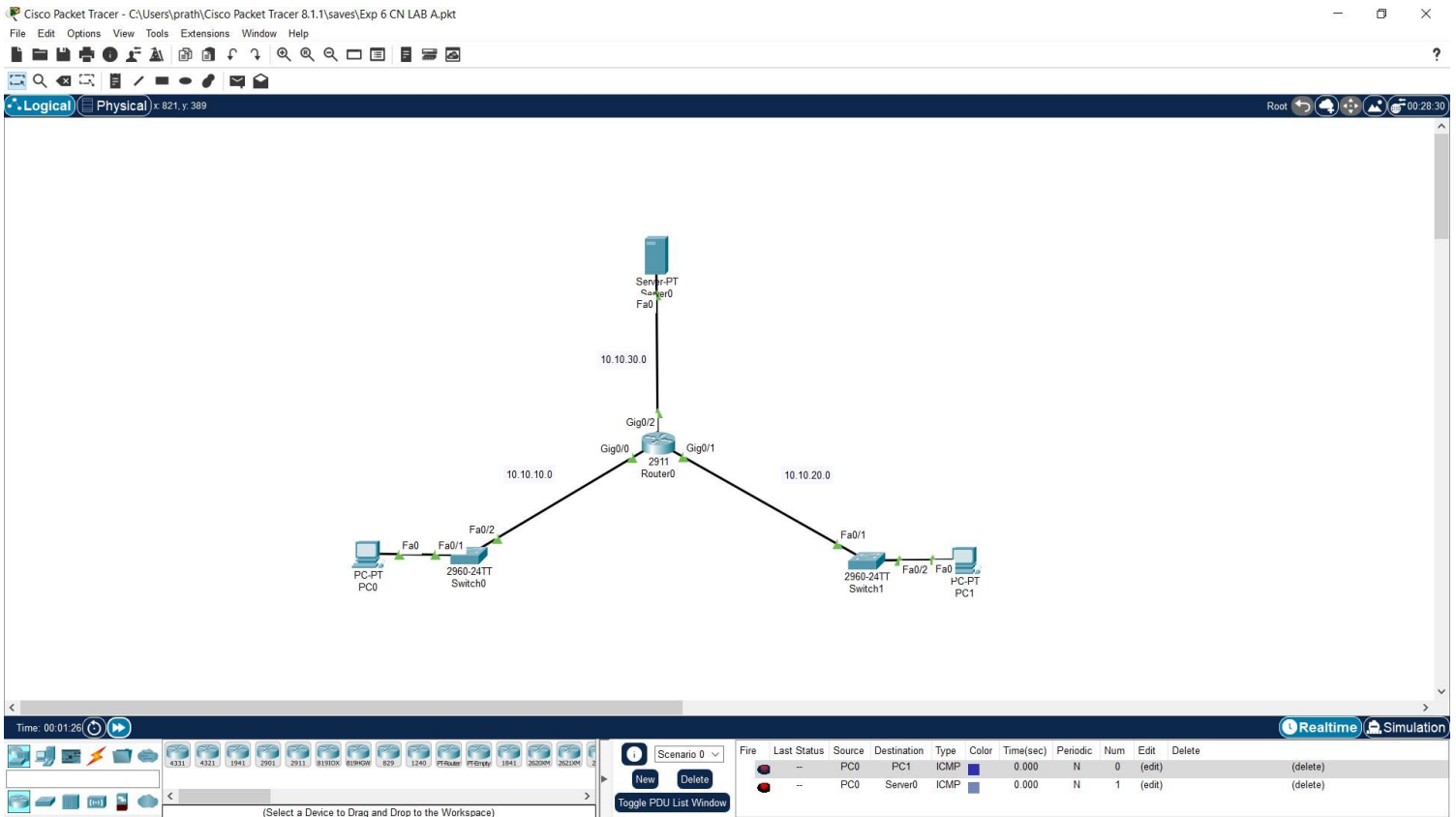
b. Email transmission in local host

Contents:

Problem Statement : Implement FTP and SMTP server in CISCO packet tracer to observe.

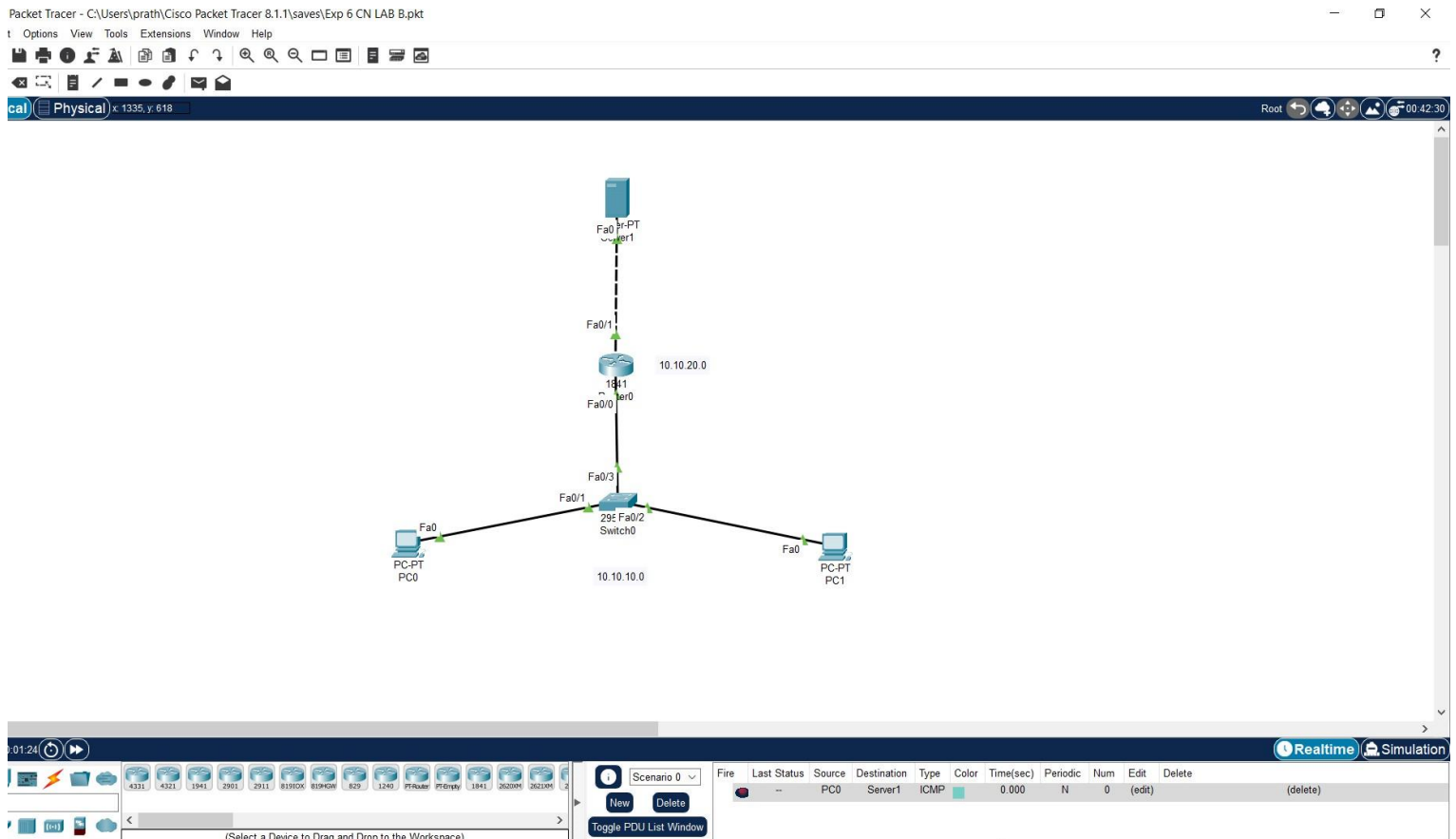a. File transmission in the local network

b. Email transmission in local host

Platform : CISCO packet tracer

Devices Required : PC , Switch, Router, Server.

Design :

For SMTP

For FTP

Implementation :

i) Create the topology as shown in the design section for each protocol.

ii) After creating the topology configure the network

For SMTP:

     i) Go to the server, enable the EMAIL then create the domain name and users by setting up the username and password.

ii) Now go to the email section of one the PC and configure the email, fill all the fields, add the email address created by you on the server, incoming mail server ip and the login information like Username and password.

PC1 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Configure Mail   X

User Information

Your Name: Omkar

Email Address   omkar@gmail.com

Server Information

Incoming Mail Server   10.10.30.2

Outgoing Mail Server   10.10.30.2
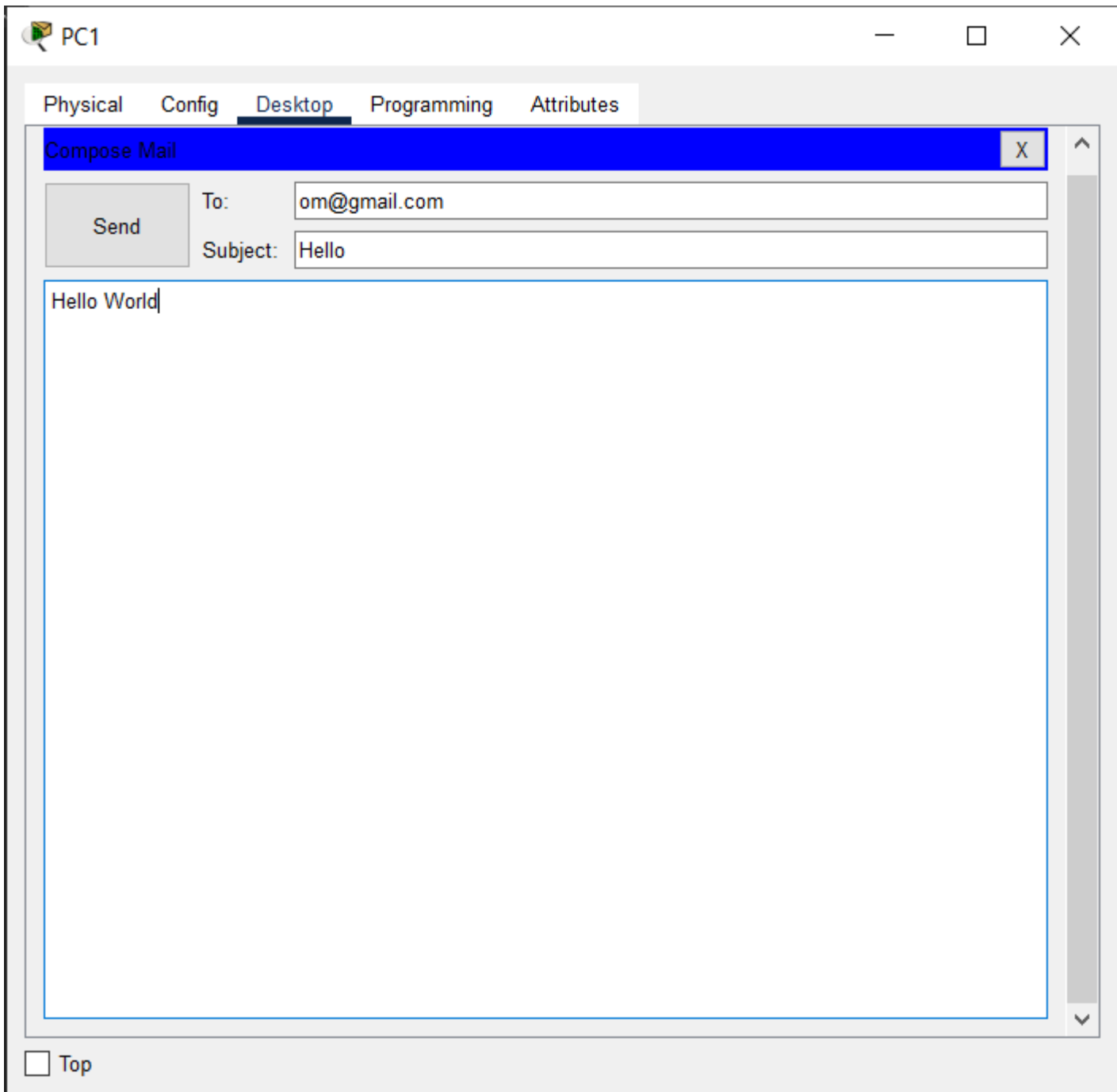
Logon Information

User Name: omkar

Password: •••

| Save | Remove | | Clear | Reset |

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iii) Follow the above steps for the other user also

iv) Compose the email given from one user login to another and click send

PC1 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Compose Mail   X

| Send | To: | om@gmail.com |
| | Subject: | Hello |

Hello World

☐ Top

v) An acknowledgment will be given to you by the mail

Sending mail to om@gmail.com , with subject : Hello
..   Mail Server: 10.10.30.2

vi) The mail will be received by the reciever.

For FTP:

vii) Turn on the FTP service on the server and create the username and password to access the FTP services.

viii)   First we have to create a file on of the user text editor and need to save it.
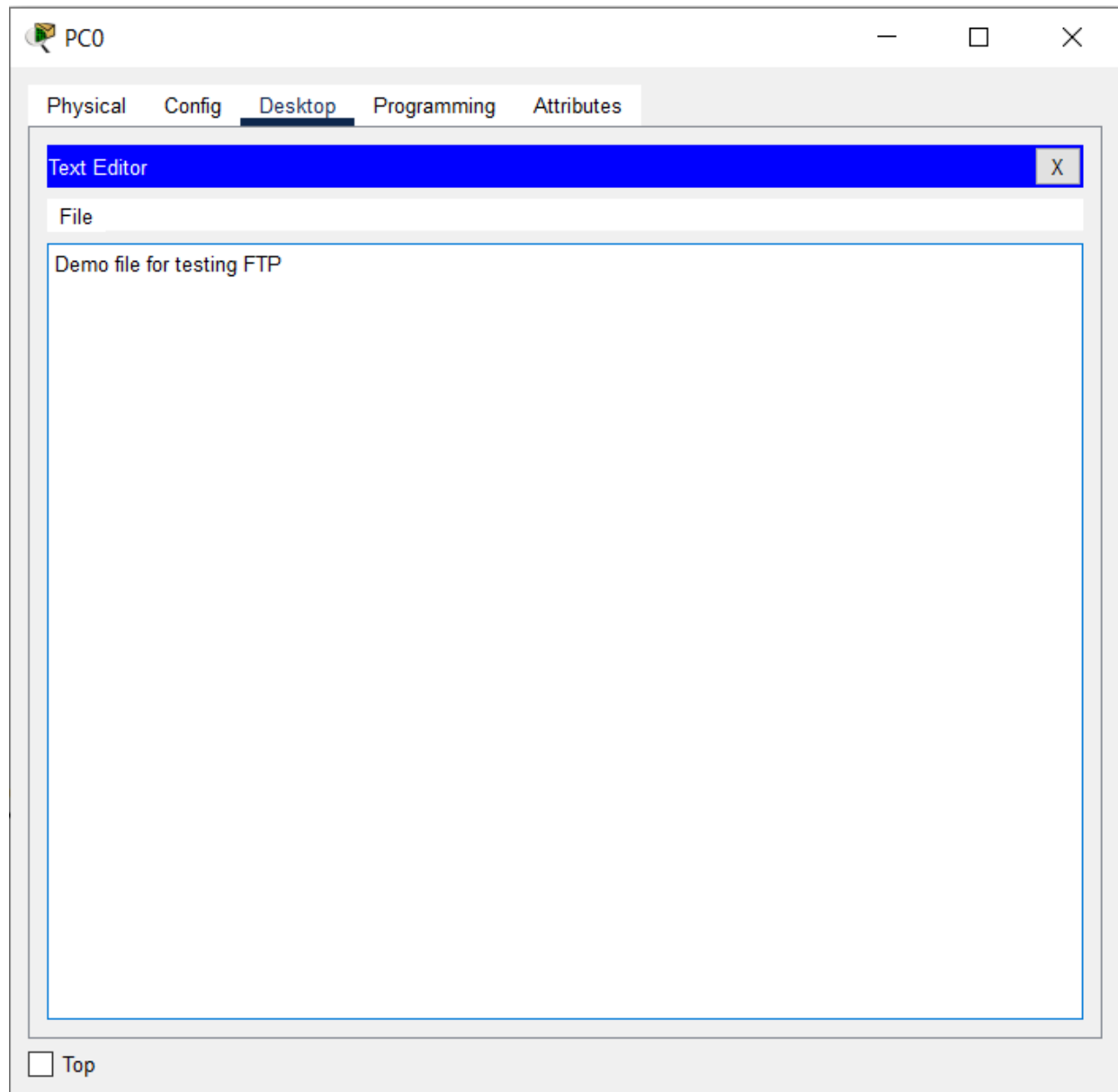
ix) Open that PC command prompt access the FTP server by using the command "ftp ip_server"

x) Put the credentials for the server ftp login and use command "put file_name" to upload the file

PC0 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 10.10.20.2
Trying to connect...10.10.20.2
Connected to 10.10.20.2
220- Welcome to PT Ftp server
Username:prathamFile
331- Username ok, need password
Password:
230- Logged in
 (passive mode On)
ftp>put demo.txt

Writing file demo.txt to 10.10.20.2:
File transfer in progress...

[Transfer complete - 25 bytes]

25 bytes copied in 0.151 secs (165 bytes/sec)
ftp>Z
```
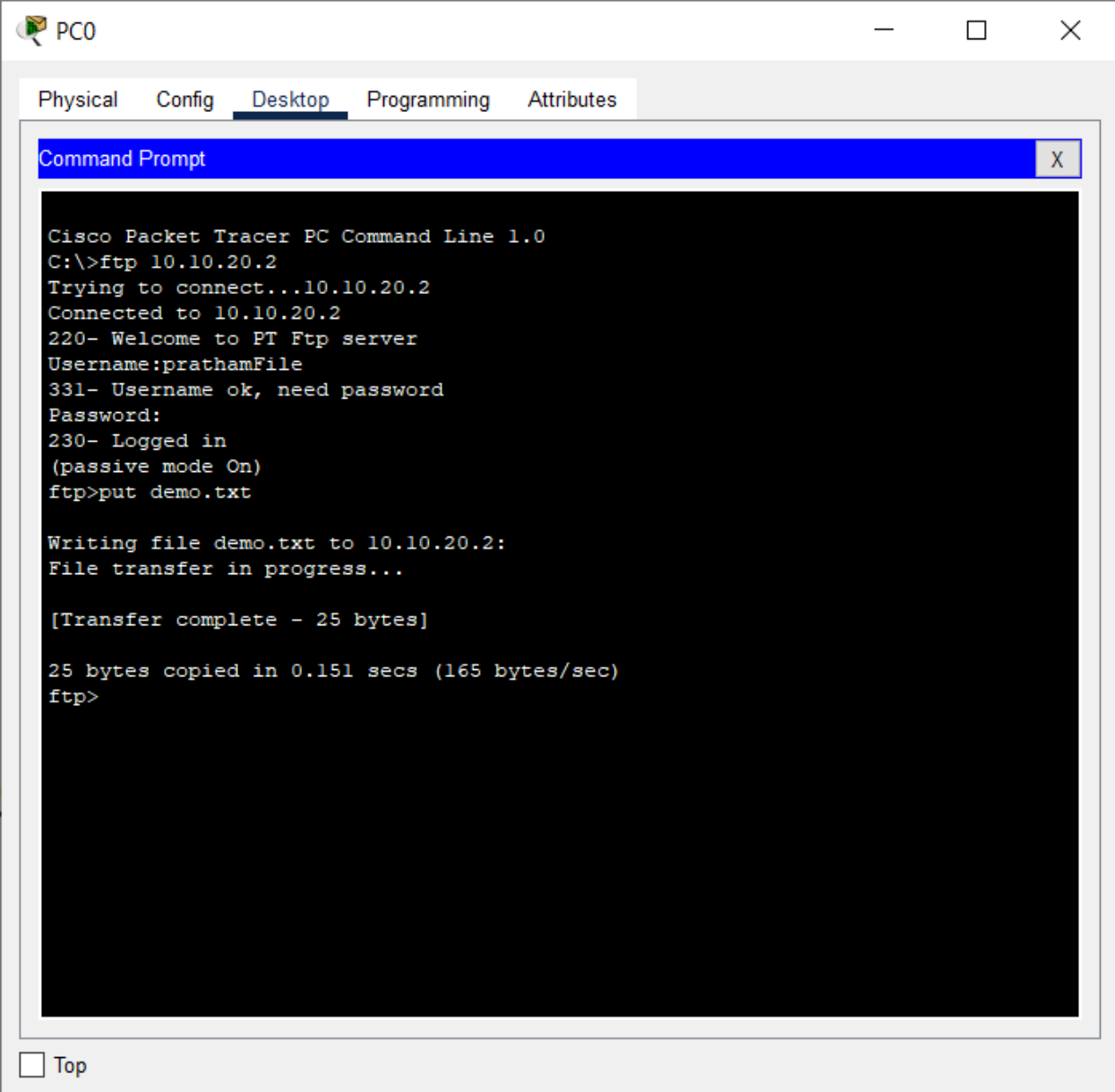
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xi) Put the credentials for the server ftp login on another device and use command "get file_name" to download the file


```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 10.10.20.2
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Connected to 10.10.20.2
220- Welcome to PT Ftp server
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ftp>put demo.txt

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ftp>
```
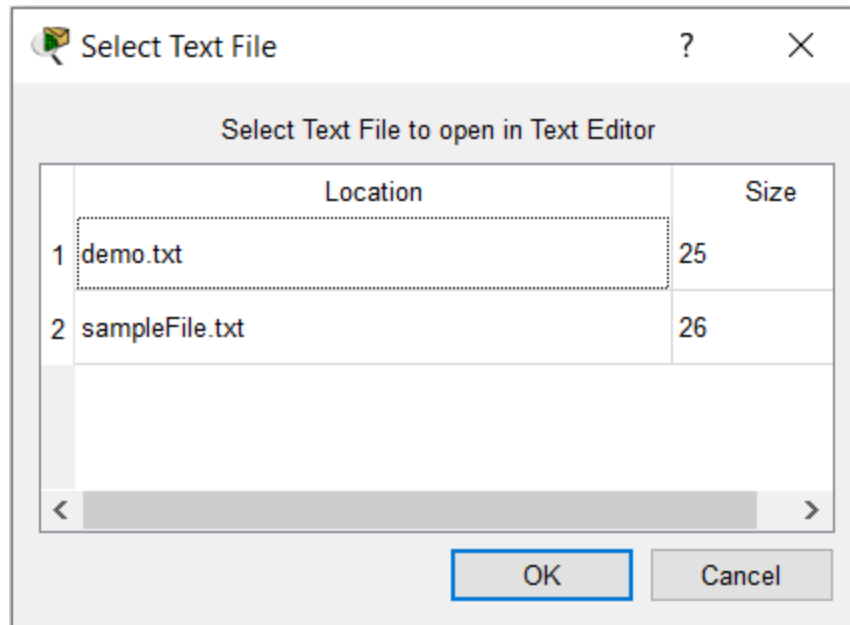
xii) File has been successfully downloaded

Results: SMTP is used for email transmission and FTP is used for file transmission.

Dr. P. K. Kharat

(Course Teacher)