



**Computer Science & Engineering**  
**CSE3501 – Information Security Analysis and Audit**

**LAB ASSIGNMENT 3**

Submitted to **Prof. RAJA SP**

NAME: PUNIT MIDDHA

REG.NO: 19BCE2060

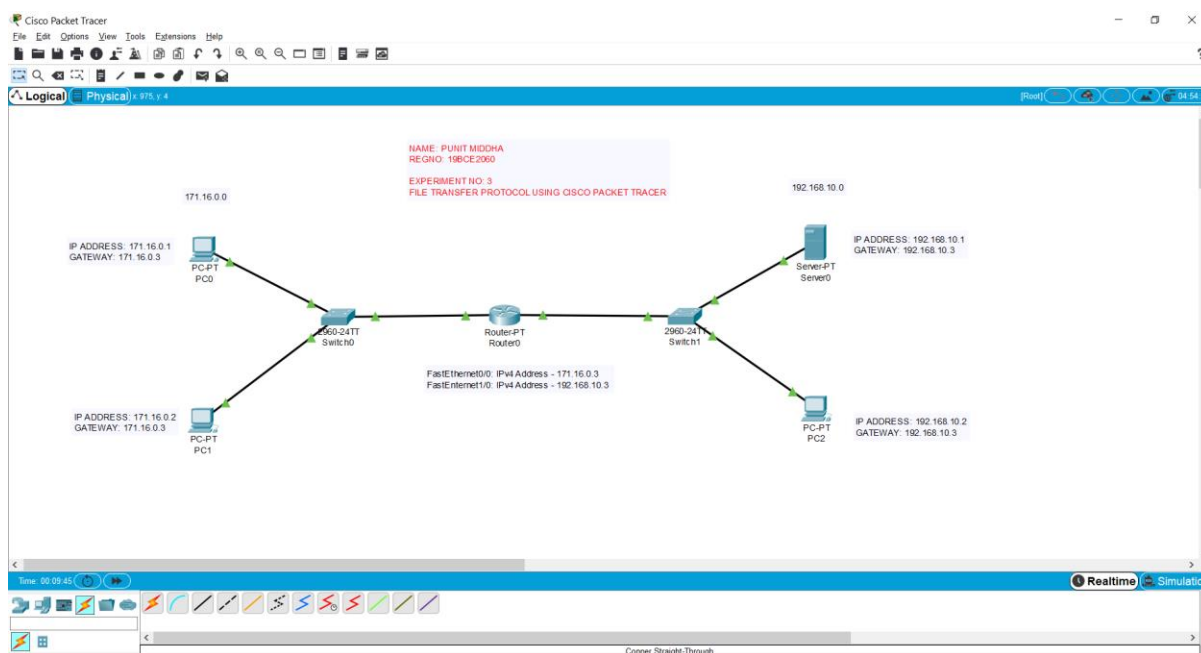
SLOT: L39+L40

DATE: 25/11/2021

**File Transfer Protocol using Cisco packet tracer**

**Procedure:**

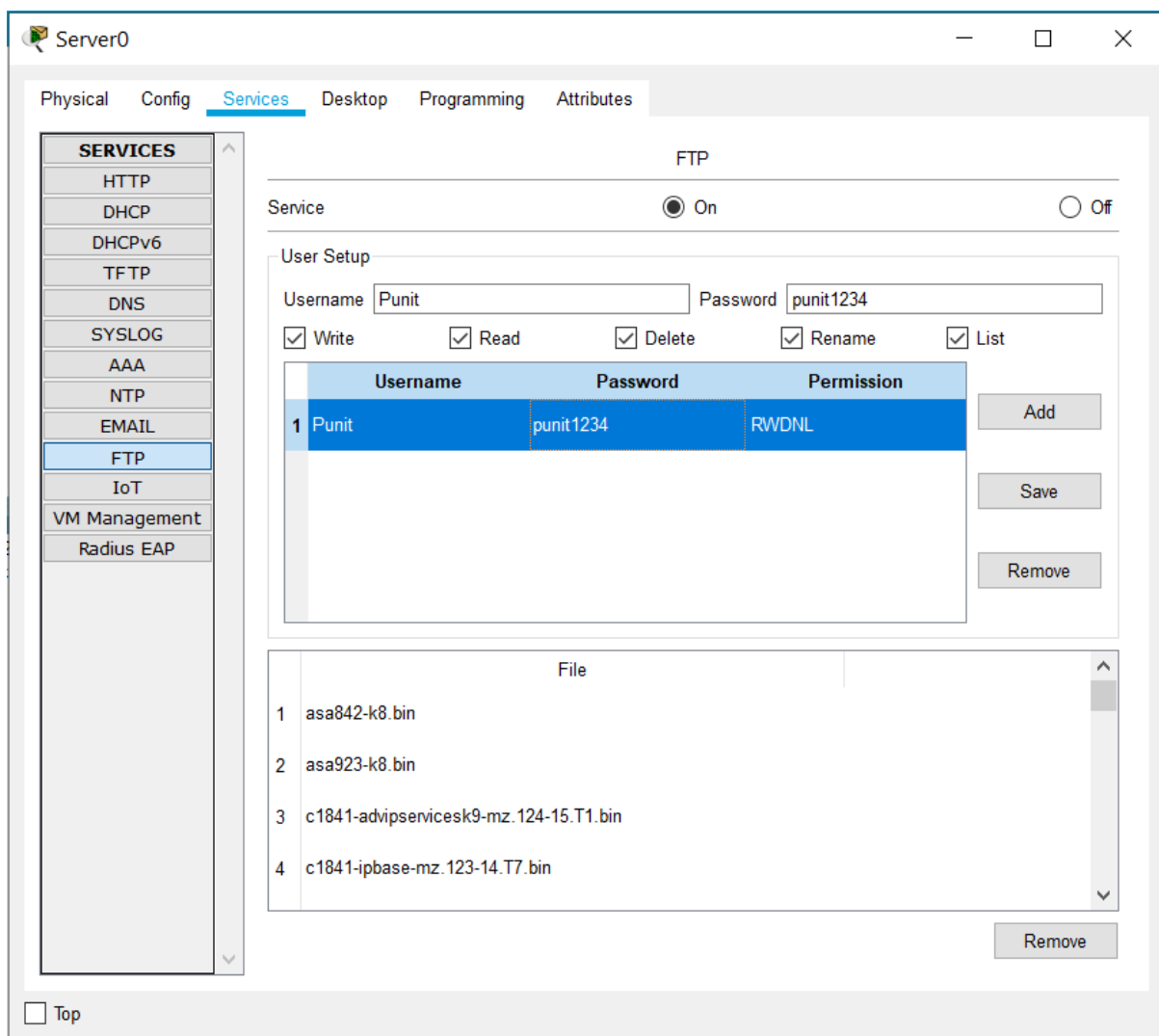
1. Go to end devices and place 1 router, 1 server, 2 switches and 3 PC's.
2. Now, go to connections and choose Copper-Straight Through cable and connect as in screenshot given below.
  - Connect router with 2 switches i.e., switch0 and switch1
  - Connect PC0, PC1 with Switch0 and PC2, Server with Switch1



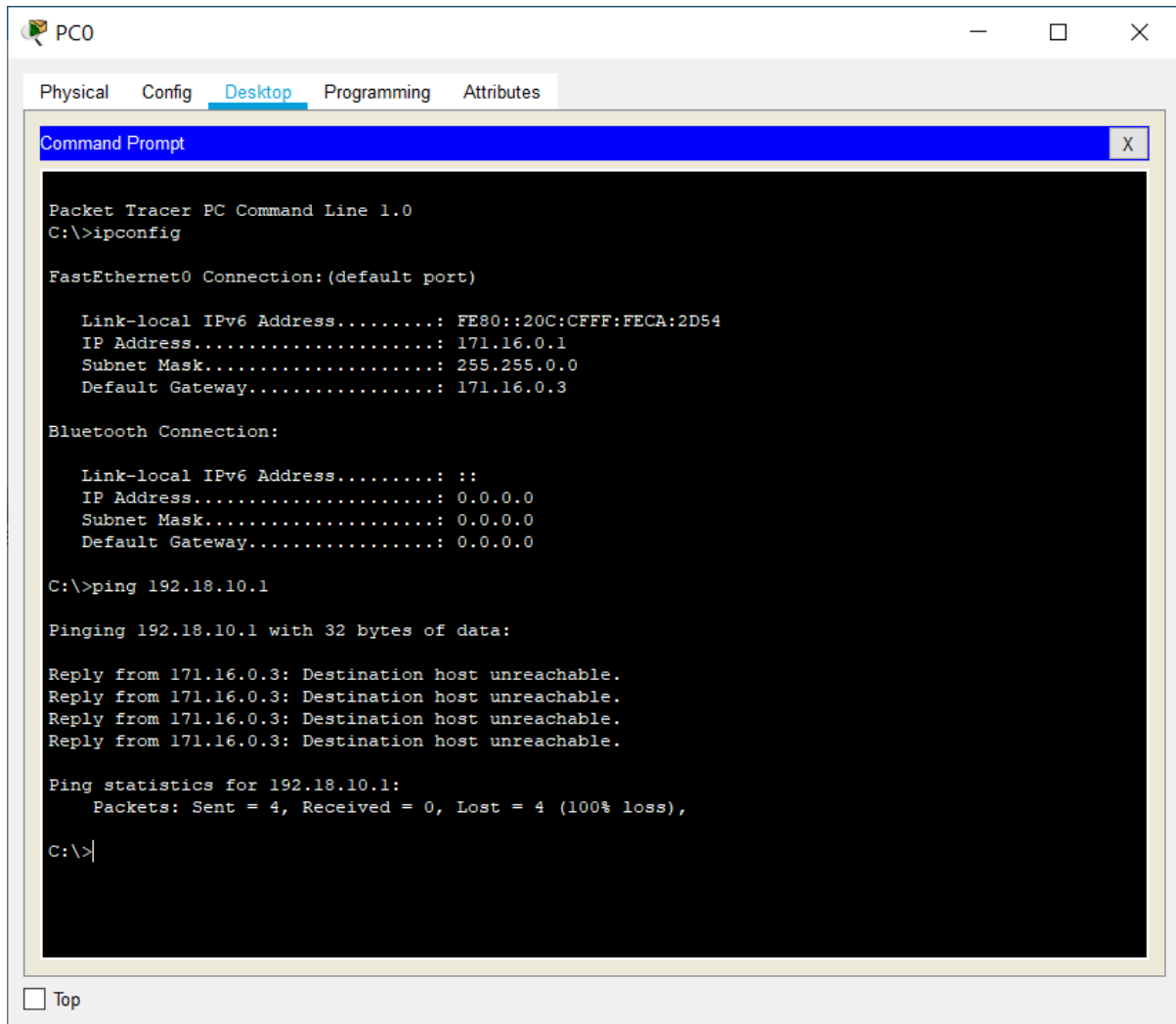
3. After completing the connection procedure, set the IP Addresses and Default Gateway for each and every end device and configure FastEthernet for Router
  - **Router0:**  
FastEthernet1/0: IPv4 Address - 192.168.10.3  
FastEthernet0/0: IPv4 Address - 171.16.0.3

- **Server0:**  
IPv4 Address - 192.168.10.1  
Default Gateway - 192.168.10.3
- **PC0:**  
IPv4 Address - 171.16.0.1  
Default Gateway - 171.16.0.3
- **PC1:**  
IPv4 Address - 171.16.0.2  
Default Gateway - 171.16.0.3
- **PC2:**  
IPv4 Address - 192.168.10.2  
Default Gateway - 192.168.10.3

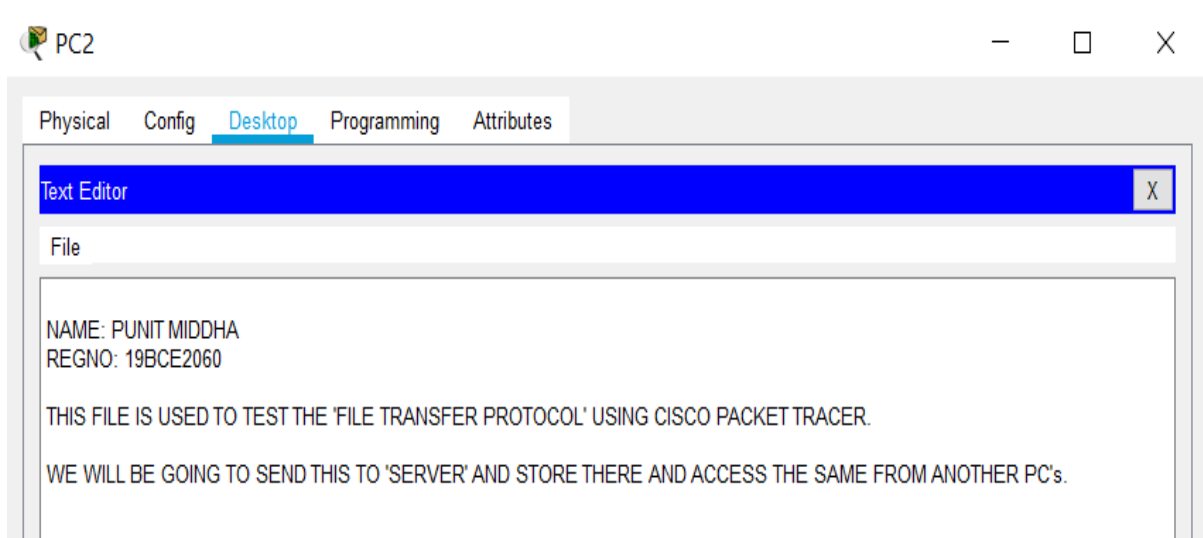
4. We have to access the ftp services. Click on Server0, go to **Services** → **FTP** and 'ON' the services meanwhile add new **username (Punit)** and **password (punit1234)** with all the permissions **i.e., RWDNL**. Here,
- R → READ  
W → WRITE  
D → DELETE  
N → RENAME  
L → LIST



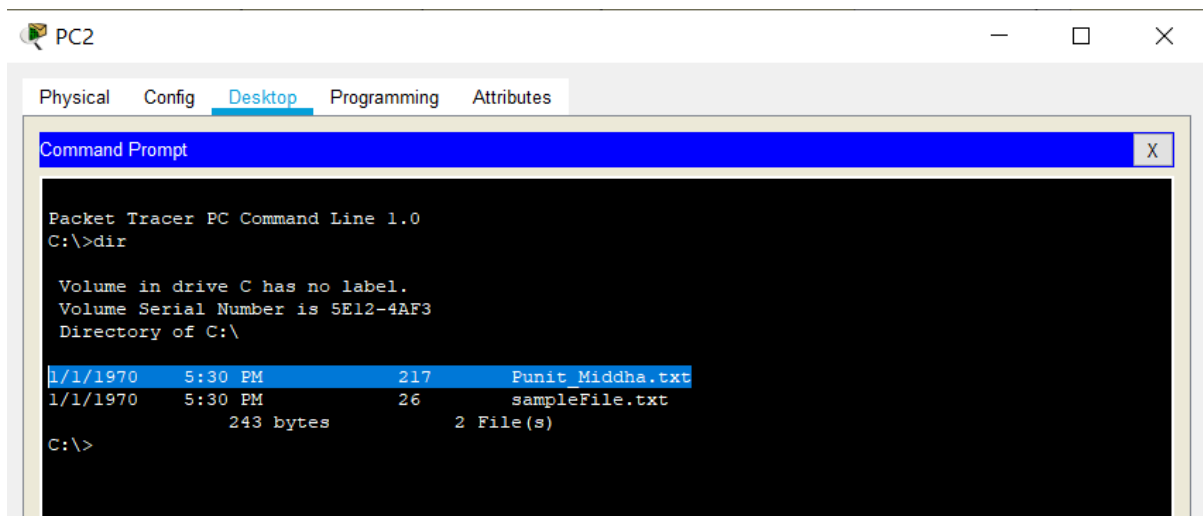
5. We have done with all the connections and services. Now, for checking connections we have to run **ipconfig** and **ping** command from PC0 to the Server0.



6. To test FTP, we have to create a file in PC2. Go to **PC2 → Desktop → Text editor**. There, make a new file with some random text that is shown below and save the file as filename '**Punit\_Middha.txt**'.



7. To check whether the file 'Punit\_Middha.txt' is present in PC2 or not, use **dir** command. It will list out all the files that are present in PC2. As shown below, our file is present in PC2.



The screenshot shows a Packet Tracer PC window for PC2. The 'Desktop' tab is active, displaying a Command Prompt window. The Command Prompt shows the output of the 'dir' command, listing files in the C:\ directory. The file 'Punit\_Middha.txt' is highlighted in blue.

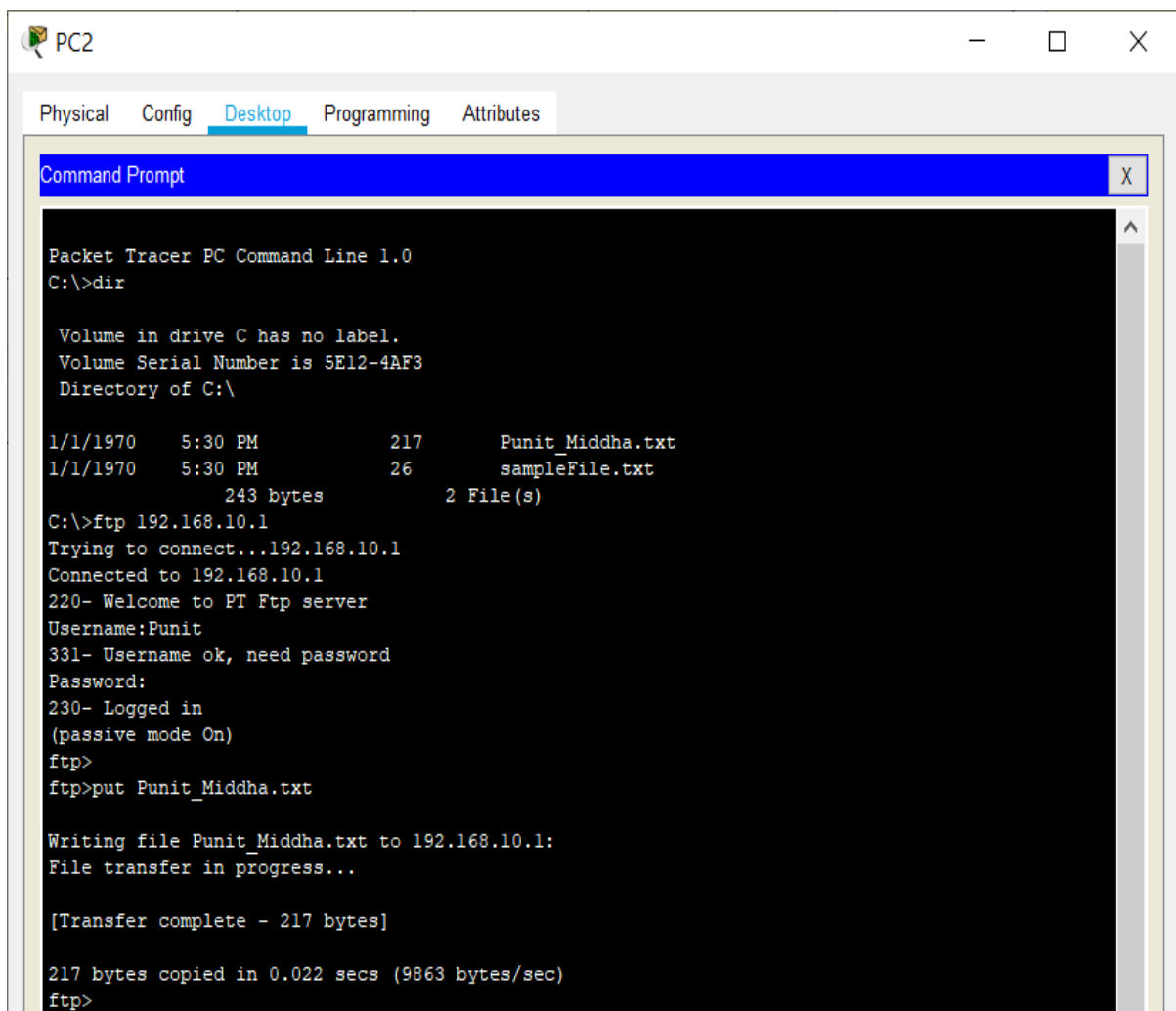
```
Packet Tracer PC Command Line 1.0
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970    5:30 PM           217      Punit_Middha.txt
1/1/1970    5:30 PM           26      sampleFile.txt
                243 bytes           2 File(s)
```

8. Next step is to send and store the file in Server0. For this we have to connect with Server0, use command **ftp <ip\_address\_of\_Server0>** (for example: **ftp 192.168.10.1**) for connecting and use the same Username and Password given in step 4.

Use the put Punit\_Middha.txt (filename) command to store the file inside the server.



The screenshot shows the same Packet Tracer PC window for PC2. The Command Prompt now shows the output of the 'ftp 192.168.10.1' command. It displays the connection process, including the username 'Punit' and password, and the successful upload of 'Punit\_Middha.txt' to the server at 192.168.10.1.

```
Packet Tracer PC Command Line 1.0
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970    5:30 PM           217      Punit_Middha.txt
1/1/1970    5:30 PM           26      sampleFile.txt
                243 bytes           2 File(s)

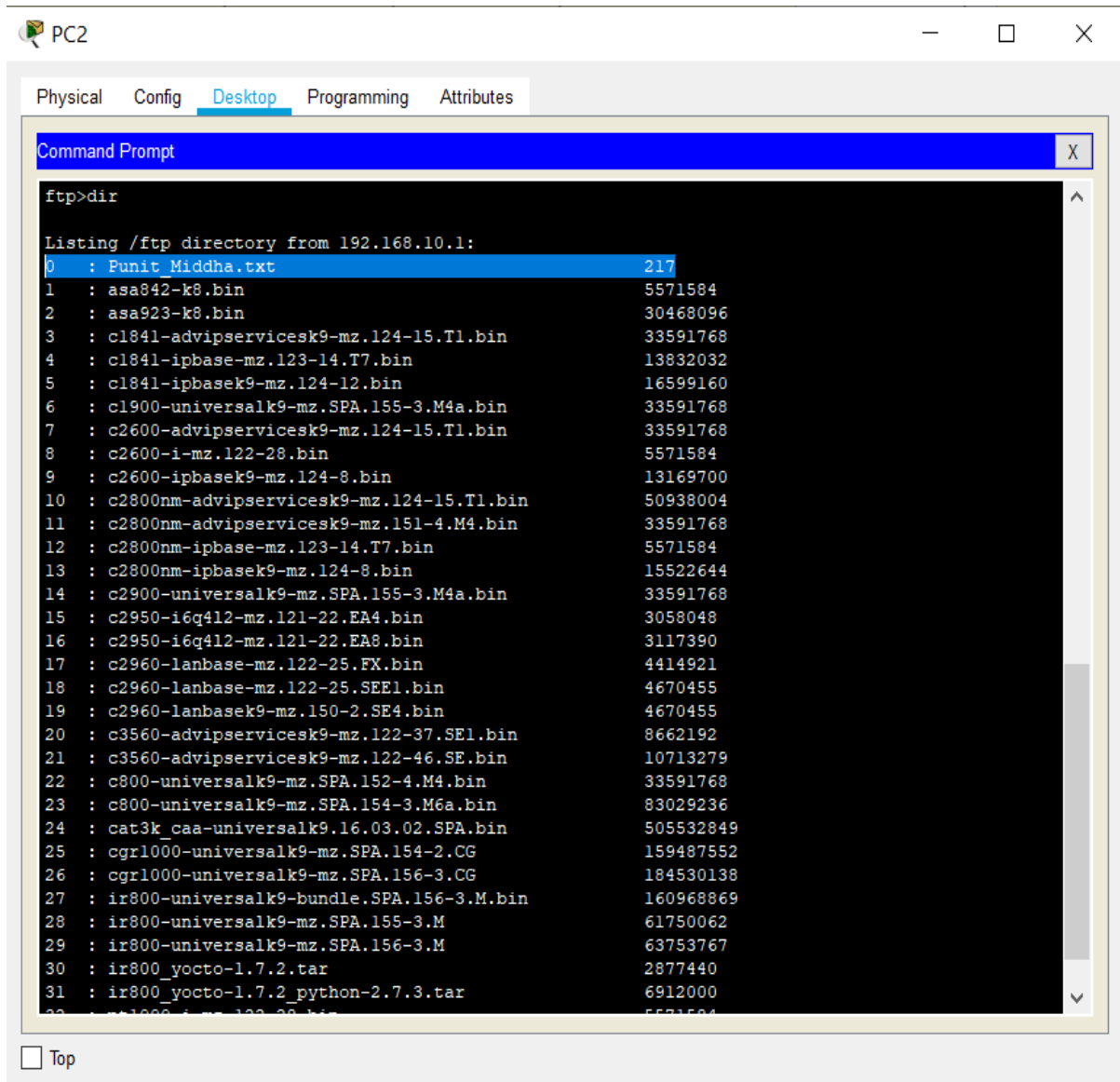
C:\>ftp 192.168.10.1
Trying to connect...192.168.10.1
Connected to 192.168.10.1
220- Welcome to PT Ftp server
Username:Punit
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
ftp>put Punit_Middha.txt

Writing file Punit_Middha.txt to 192.168.10.1:
File transfer in progress...

[Transfer complete - 217 bytes]

217 bytes copied in 0.022 secs (9863 bytes/sec)
ftp>
```

9. Checking whether the file is successfully sent. Use **dir** command in ftp for the same. As you can see the file is stored successfully. Now, we can access this file using another PC i.e., PC0, PC1.



The screenshot shows a window titled 'PC2' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the output of the 'ftp>dir' command, listing files in the /ftp directory from 192.168.10.1. The first file, 'Punit\_Middha.txt', is highlighted in blue.

```
ftp>dir

Listing /ftp directory from 192.168.10.1:
0  : Punit_Middha.txt                217
1  : asa842-k8.bin                  5571584
2  : asa923-k8.bin                  30468096
3  : cl841-advipservicesk9-mz.124-15.T1.bin  33591768
4  : cl841-ipbase-mz.123-14.T7.bin  13832032
5  : cl841-ipbasek9-mz.124-12.bin  16599160
6  : cl900-universalk9-mz.SPA.155-3.M4a.bin  33591768
7  : c2600-advipservicesk9-mz.124-15.T1.bin  33591768
8  : c2600-i-mz.122-28.bin          5571584
9  : c2600-ipbasek9-mz.124-8.bin    13169700
10 : c2800nm-advipservicesk9-mz.124-15.T1.bin  50938004
11 : c2800nm-advipservicesk9-mz.151-4.M4.bin  33591768
12 : c2800nm-ipbase-mz.123-14.T7.bin  5571584
13 : c2800nm-ipbasek9-mz.124-8.bin  15522644
14 : c2900-universalk9-mz.SPA.155-3.M4a.bin  33591768
15 : c2950-i6q412-mz.121-22.EA4.bin  3058048
16 : c2950-i6q412-mz.121-22.EA8.bin  3117390
17 : c2960-lanbase-mz.122-25.FX.bin  4414921
18 : c2960-lanbase-mz.122-25.SEE1.bin  4670455
19 : c2960-lanbasek9-mz.150-2.SE4.bin  4670455
20 : c3560-advipservicesk9-mz.122-37.SE1.bin  8662192
21 : c3560-advipservicesk9-mz.122-46.SE.bin  10713279
22 : c800-universalk9-mz.SPA.152-4.M4.bin  33591768
23 : c800-universalk9-mz.SPA.154-3.M6a.bin  83029236
24 : cat3k_caa-universalk9.16.03.02.SPA.bin  505532849
25 : cgr1000-universalk9-mz.SPA.154-2.CG  159487552
26 : cgr1000-universalk9-mz.SPA.156-3.CG  184530138
27 : ir800-universalk9-bundle.SPA.156-3.M.bin  160968869
28 : ir800-universalk9-mz.SPA.155-3.M  61750062
29 : ir800-universalk9-mz.SPA.156-3.M  63753767
30 : ir800_yocto-1.7.2.tar          2877440
31 : ir800_yocto-1.7.2_python-2.7.3.tar  6912000
```

10. Click on PC0, go to **Desktop** → **Command Prompt**. Check the file using **dir** command.



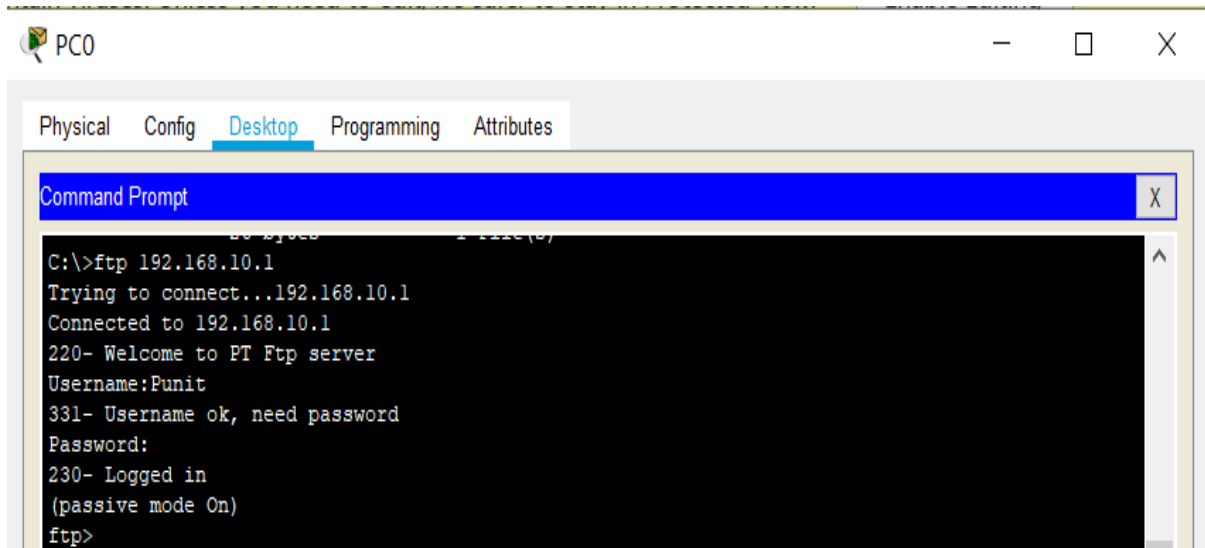
The screenshot shows a window titled 'PC0' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the output of the 'C:\>dir' command, displaying the directory of C:\.

```
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

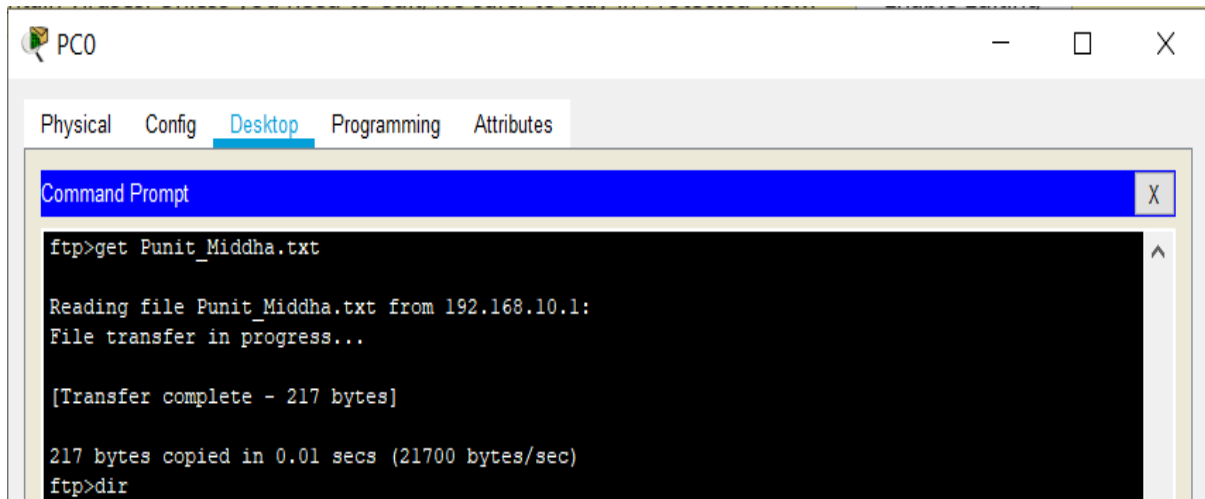
1/1/1970    5:30 PM           26      sampleFile.txt
                26 bytes           1 File(s)
```

11. File 'Punit\_Middha.txt' is not present in PC0. Again, we have to connect PC0 to Server0 using ftp 192.168.10.1 and same Username, Password.



```
C:\>ftp 192.168.10.1
Trying to connect...192.168.10.1
Connected to 192.168.10.1
220- Welcome to FT Ftp server
Username:Punit
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
```

12. Get the file using **get Punit\_Middha.txt** (filename) command.



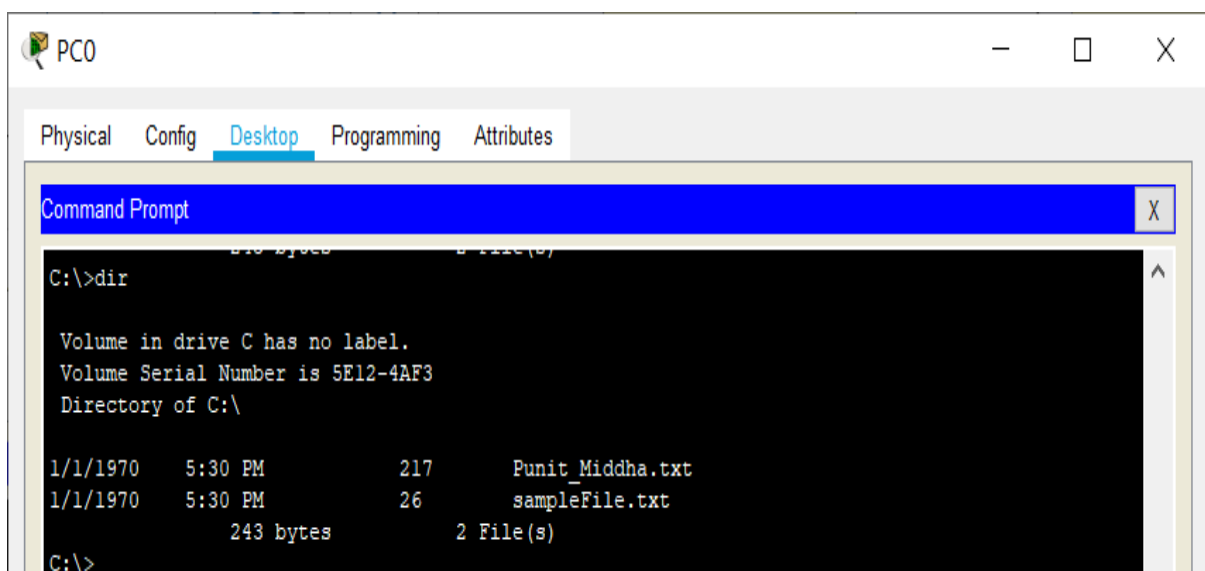
```
ftp>get Punit_Middha.txt

Reading file Punit_Middha.txt from 192.168.10.1:
File transfer in progress...

[Transfer complete - 217 bytes]

217 bytes copied in 0.01 secs (21700 bytes/sec)
ftp>dir
```

13. Again, checking the File using **dir** command. This time we can see file 'Punit\_Middha.txt' is present in PC0.



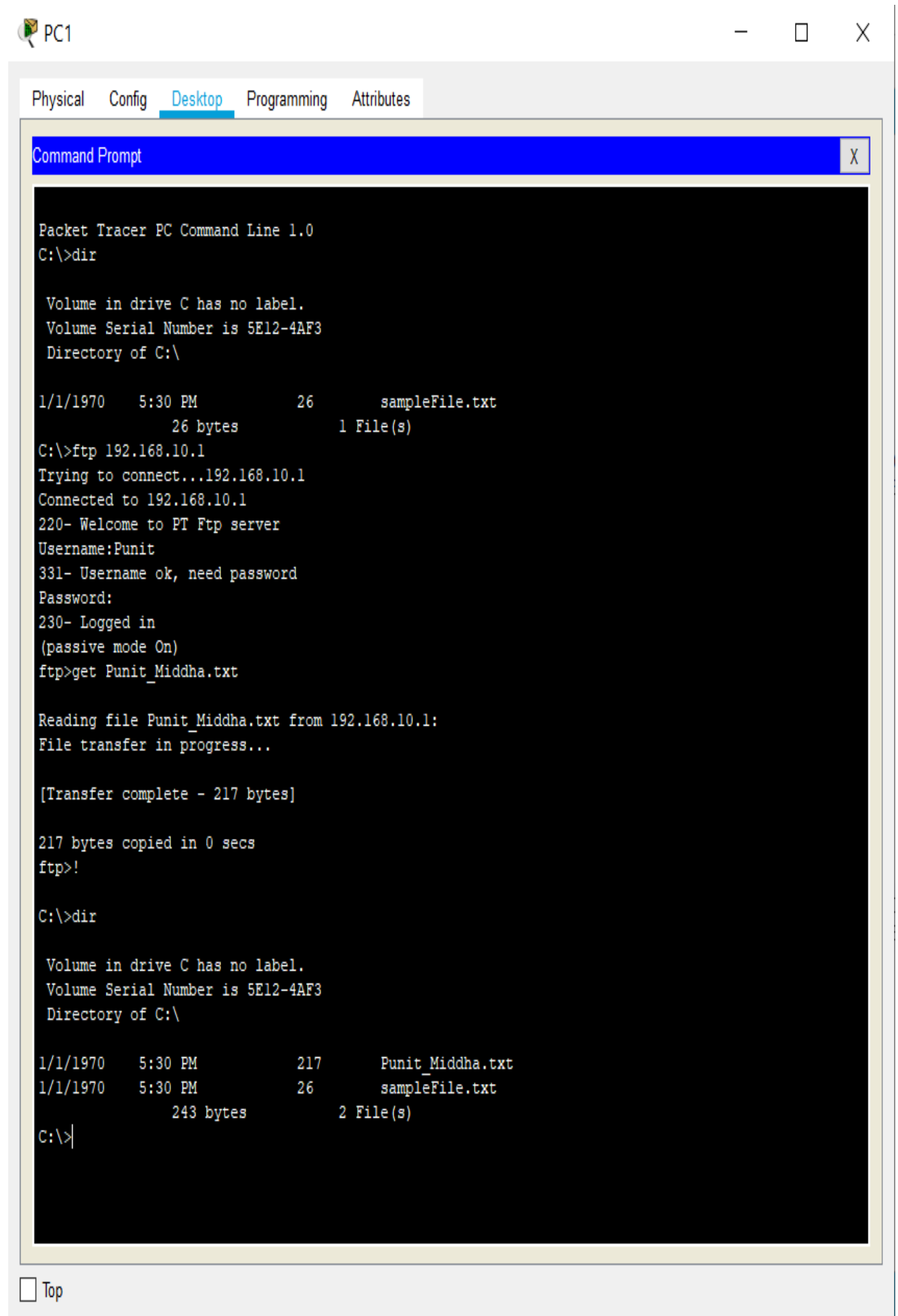
```
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970   5:30 PM           217      Punit_Middha.txt
1/1/1970   5:30 PM            26      sampleFile.txt
                243 bytes          2 File(s)

C:\>
```

#### 14. Repeating the steps for PC1



PC1

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970    5:30 PM           26      sampleFile.txt
                26 bytes          1 File(s)

C:\>ftp 192.168.10.1
Trying to connect...192.168.10.1
Connected to 192.168.10.1
220- Welcome to PT Ftp server
Username:Punit
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get Punit_Middha.txt

Reading file Punit_Middha.txt from 192.168.10.1:
File transfer in progress...

[Transfer complete - 217 bytes]

217 bytes copied in 0 secs
ftp>!

C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

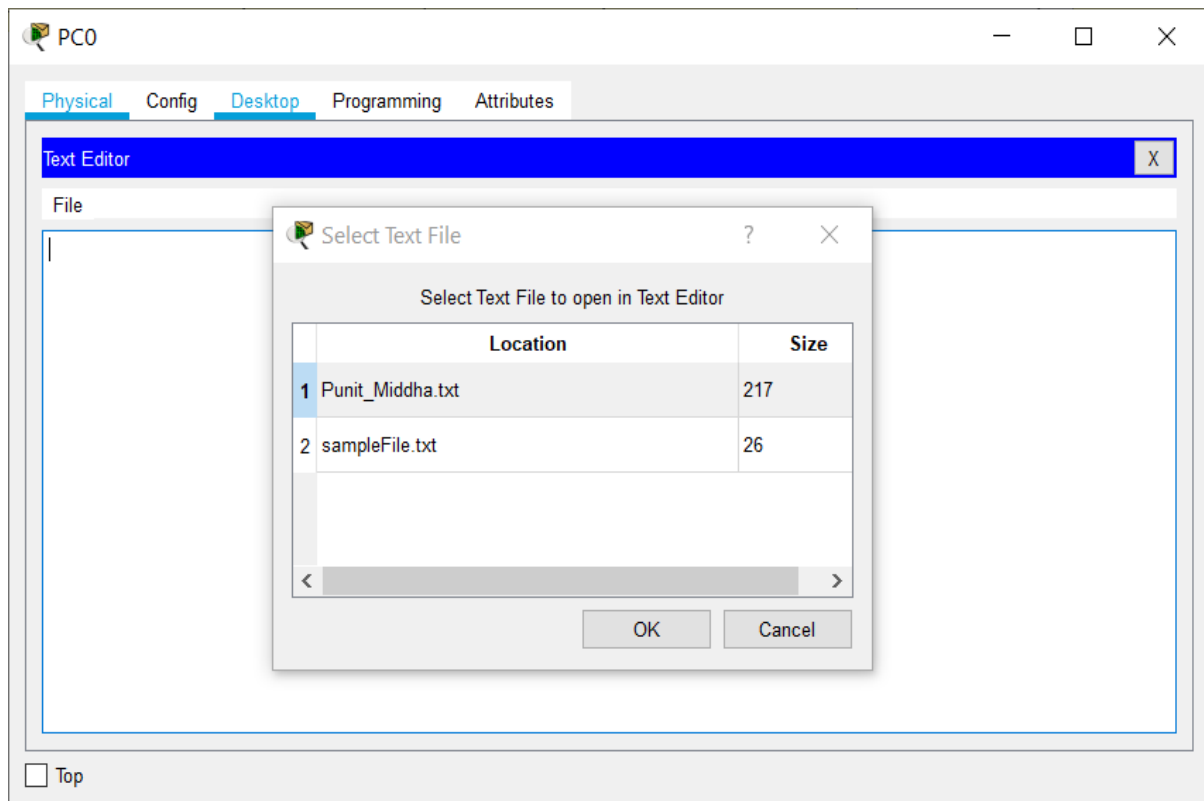
1/1/1970    5:30 PM           217      Punit_Middha.txt
1/1/1970    5:30 PM           26      sampleFile.txt
                243 bytes          2 File(s)

C:\>|
```

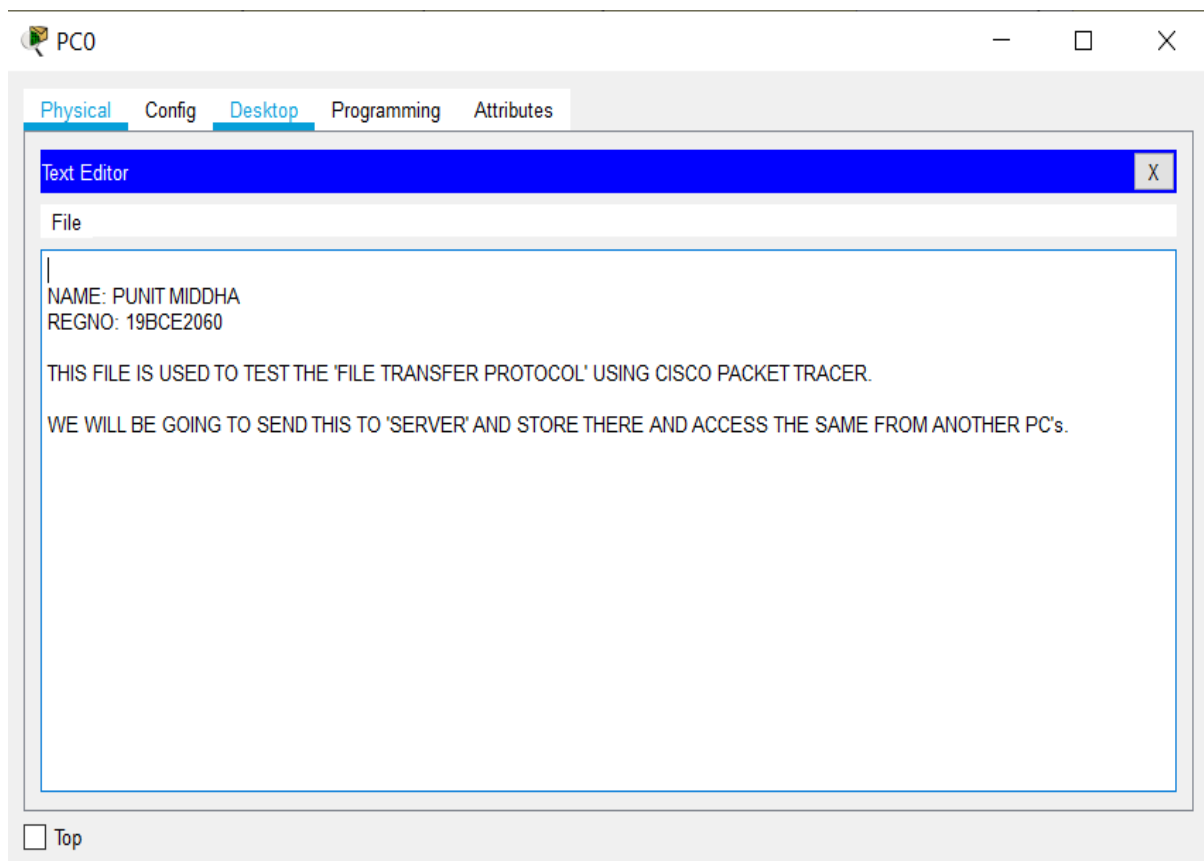
☐ Top

## Output:

### A. File transfer from Server0 to PC0

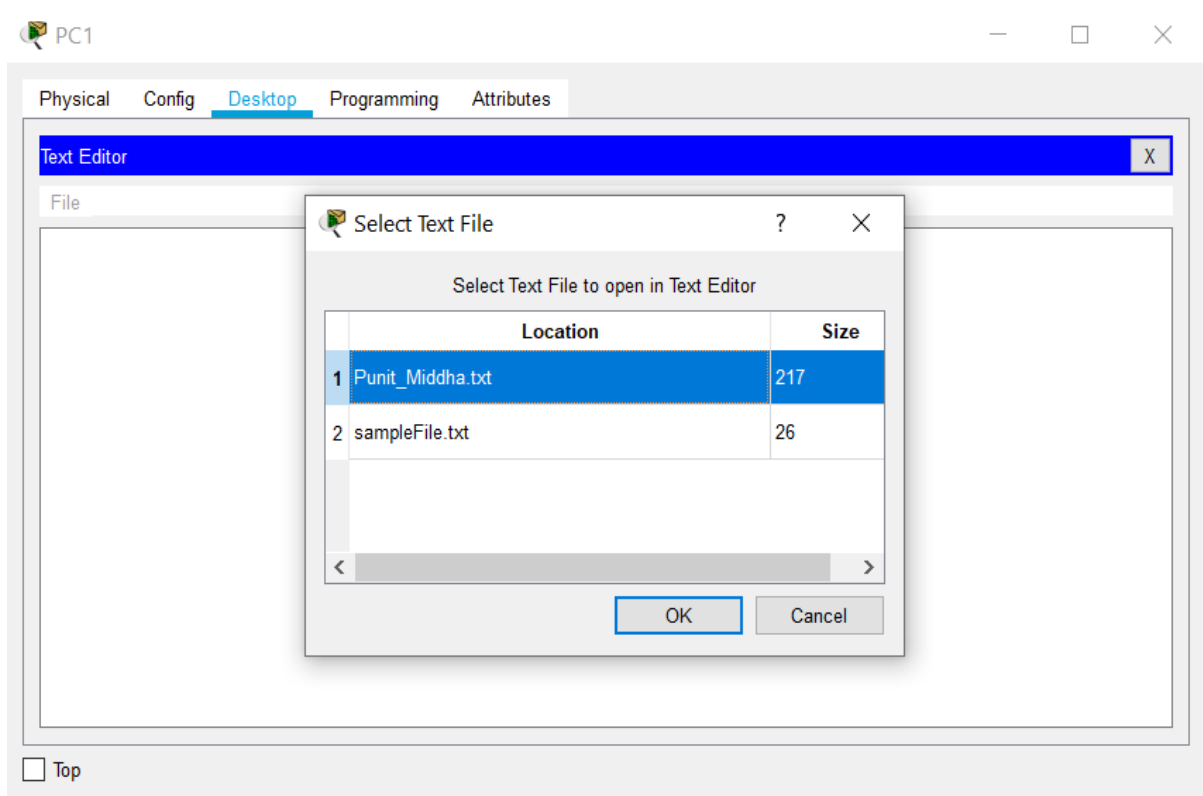


Same file 'Punit\_Middha.txt' is shown in PC0





## B. File transfer from Server0 to PC1



Same file 'Punit\_Middha.txt' is shown in PC1

