



Date: 18 / 07 / 2025

Lab Practical #07:

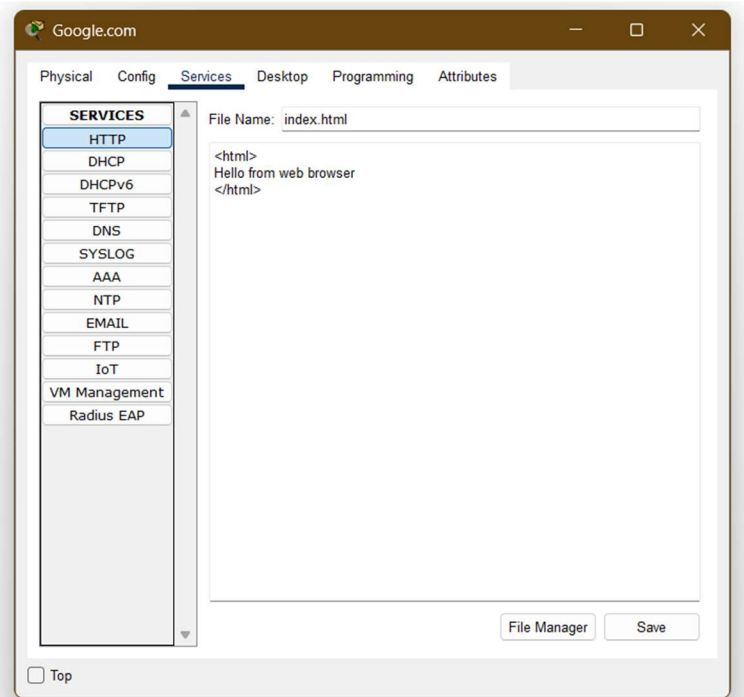
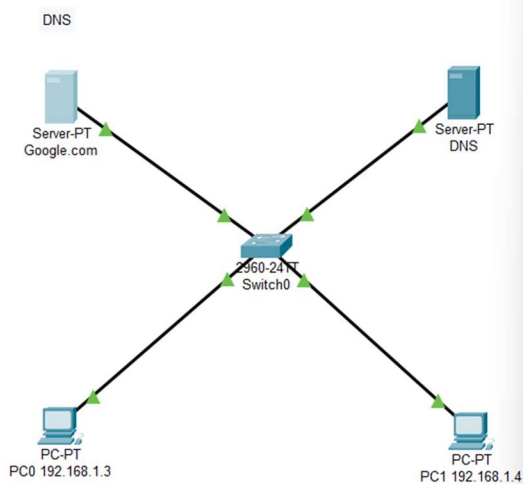
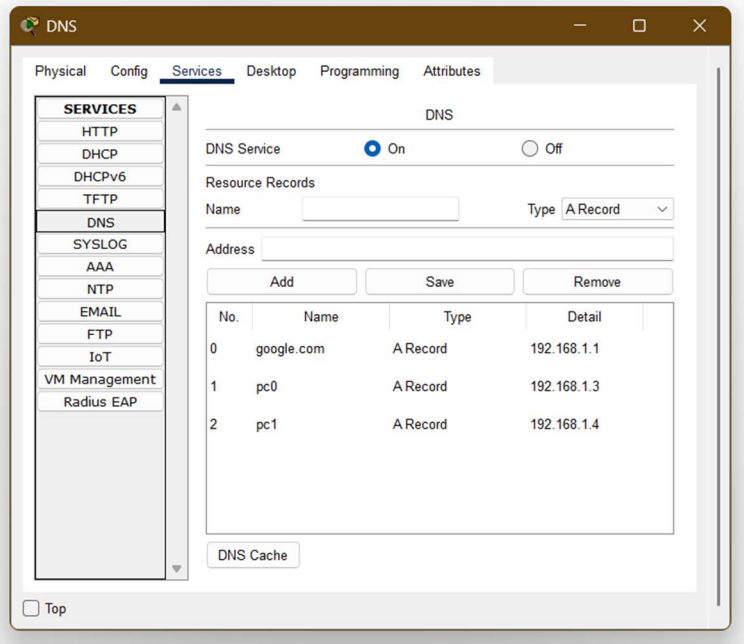
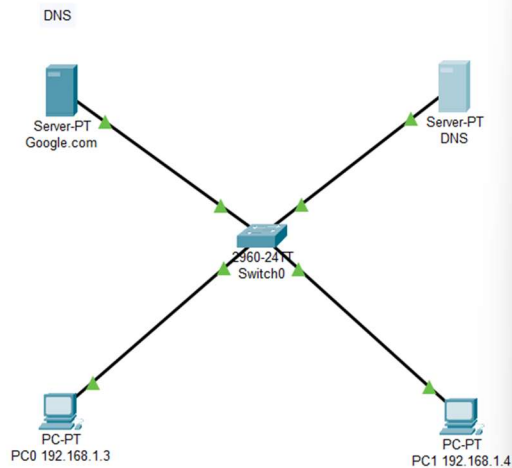
Study the application layer protocol DNS, DHCP, FTP.

Practical Assignment #07:

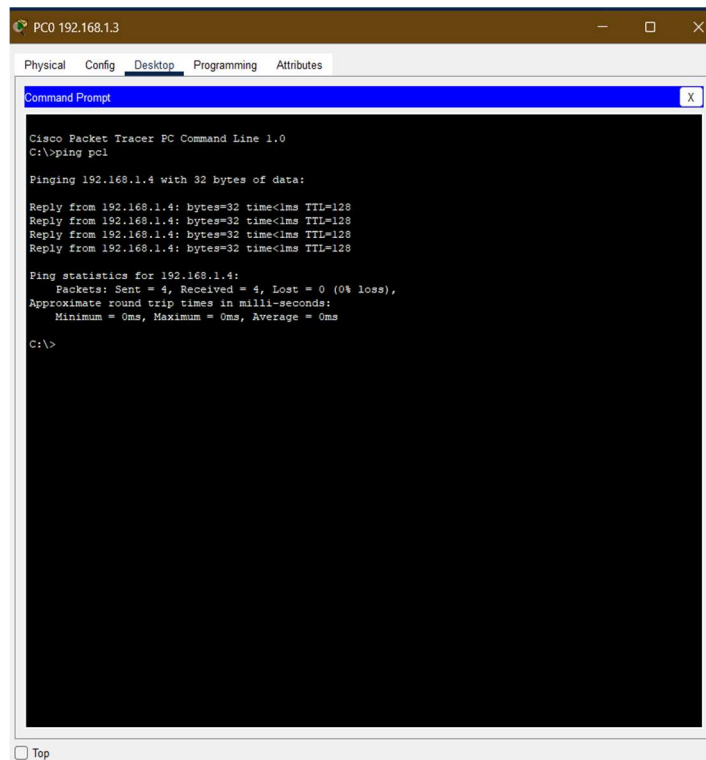
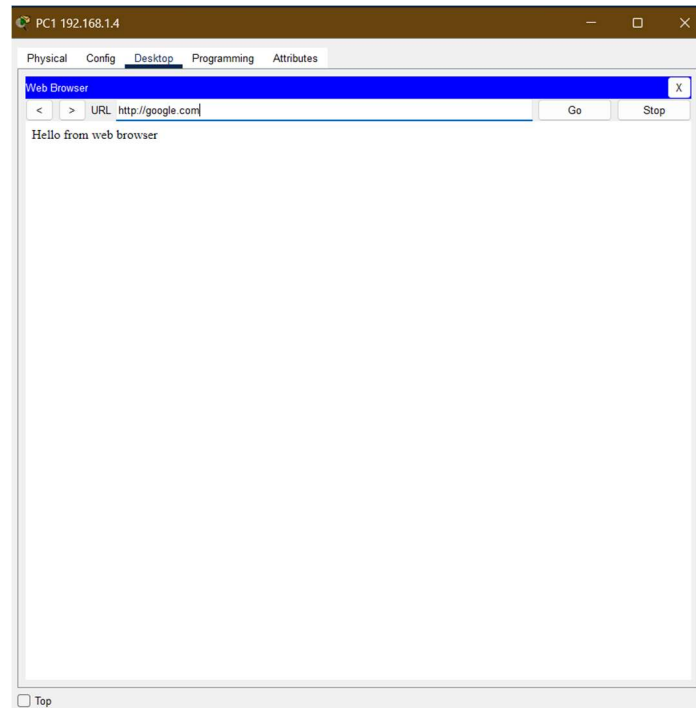
- 1. Implement the application layer protocol DNS, DHCP, and FTP. Also check connectivity between them using ping command or PDU utility.**

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a. DNS

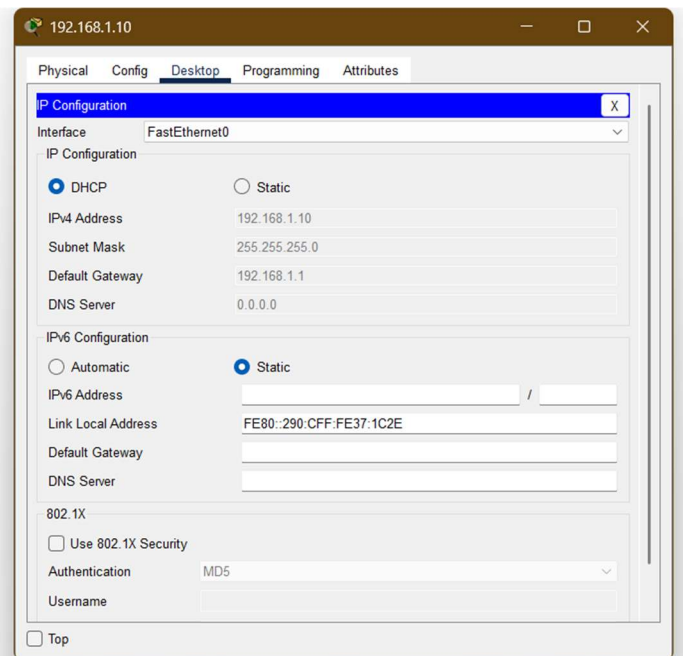
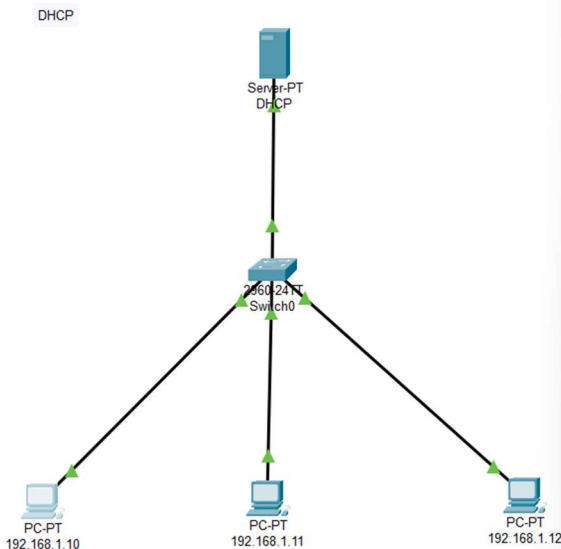
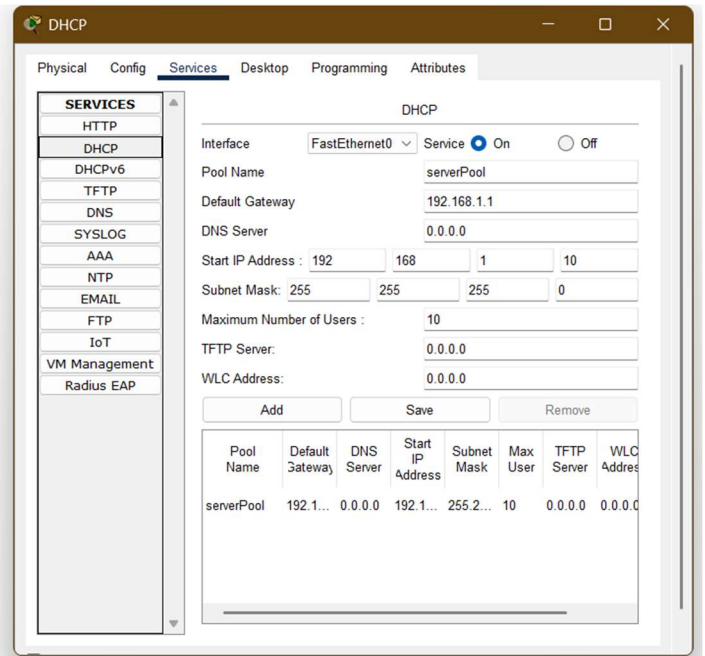
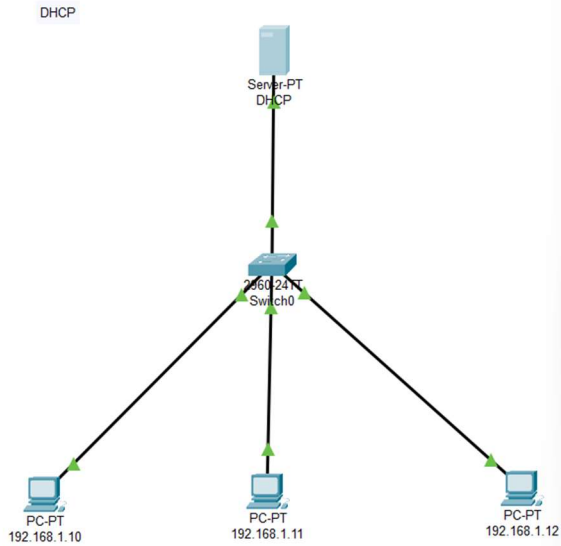


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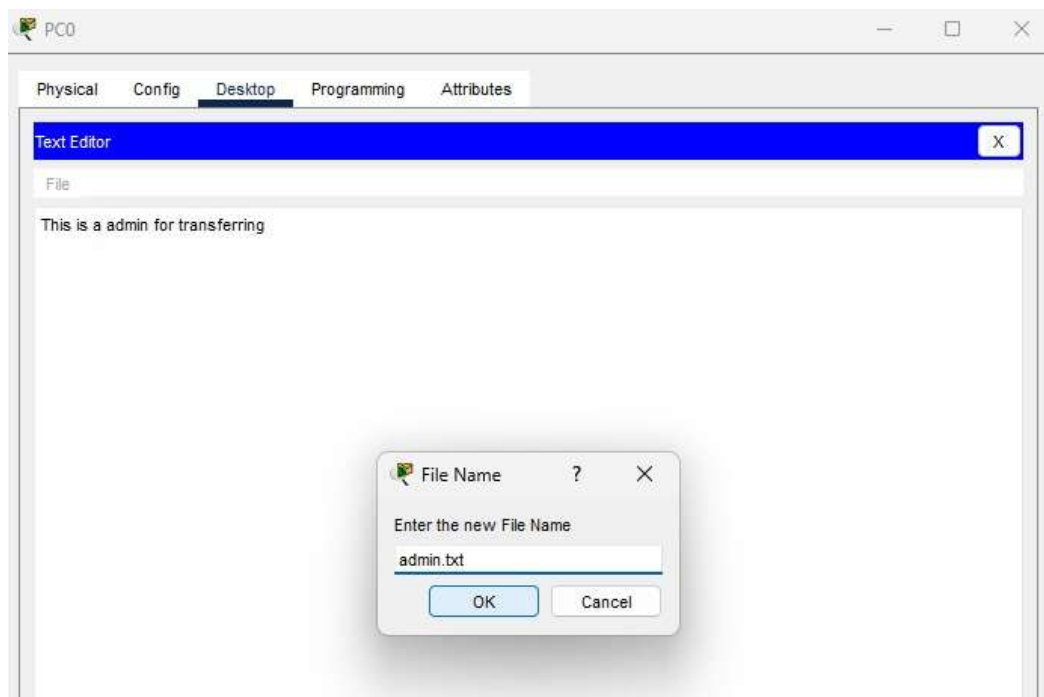
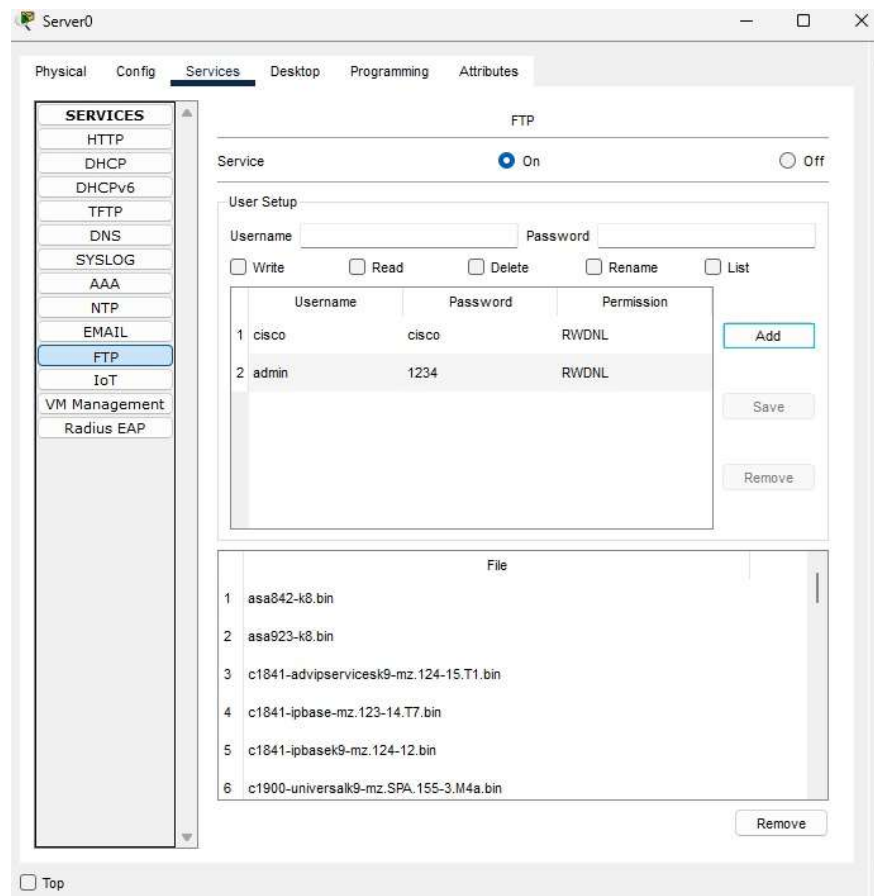
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b. DHCP

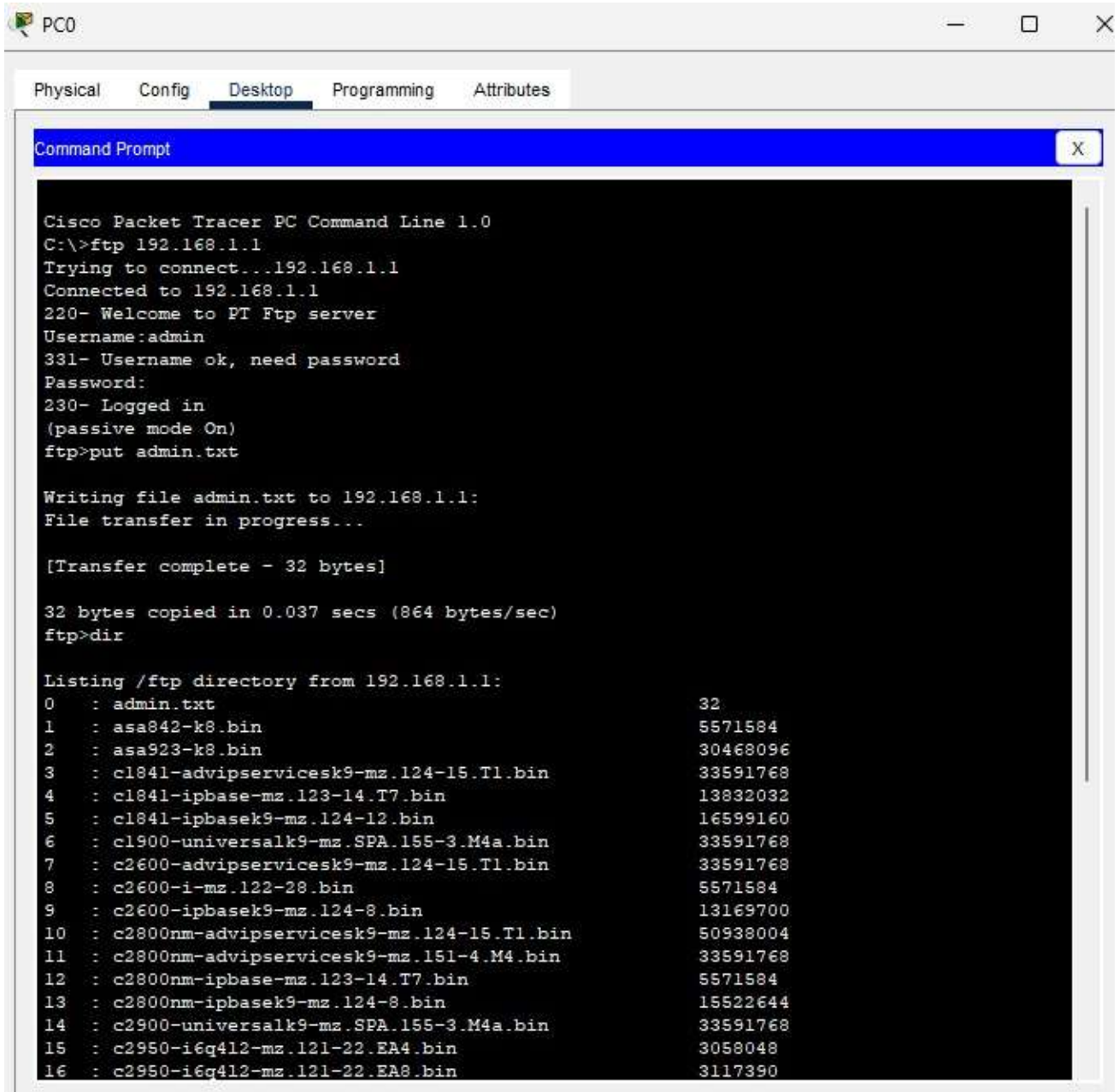


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c. FTP



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```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.1
Trying to connect...192.168.1.1
Connected to 192.168.1.1
220- Welcome to FT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put admin.txt

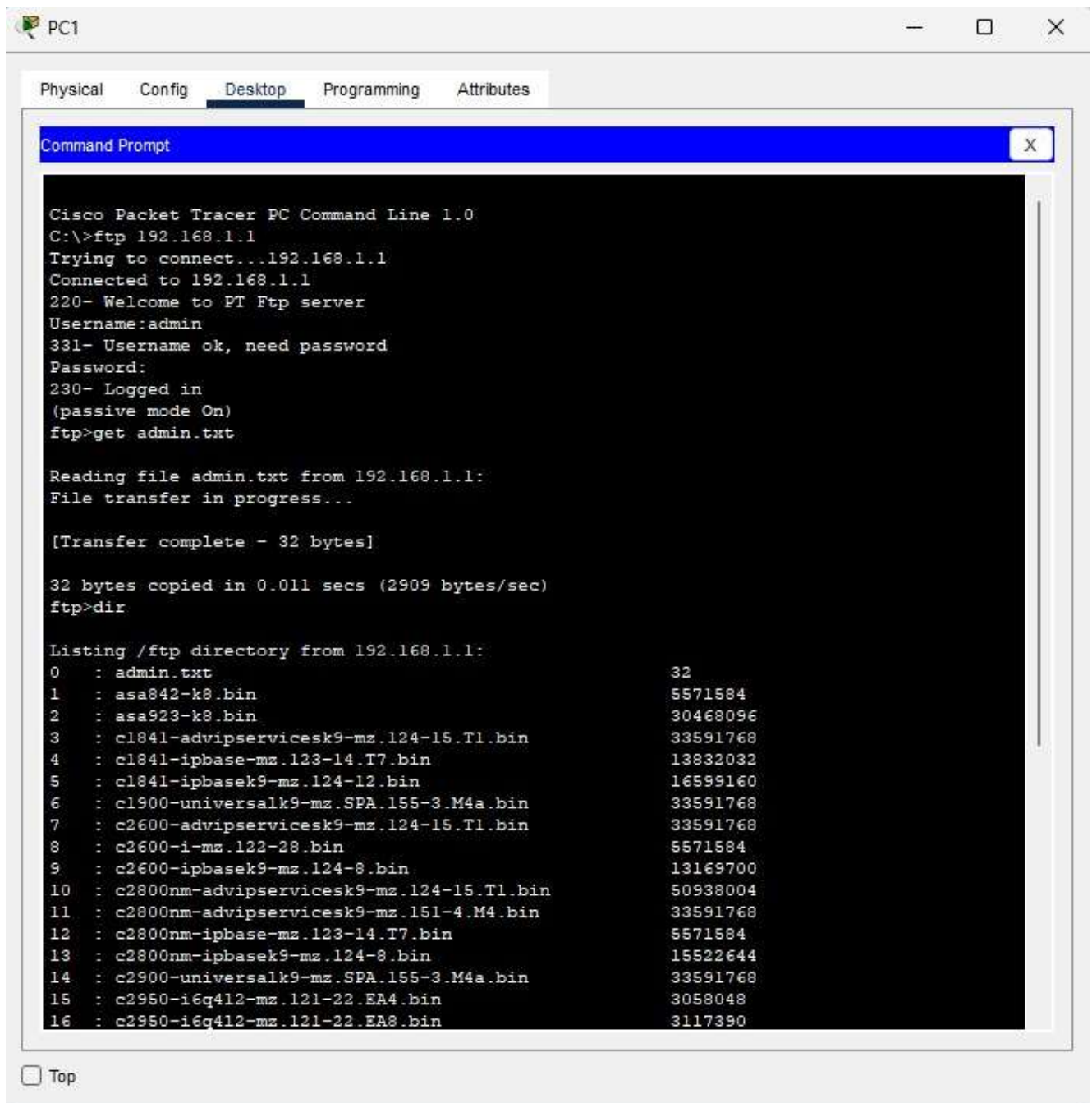
Writing file admin.txt to 192.168.1.1:
File transfer in progress...

[Transfer complete - 32 bytes]

32 bytes copied in 0.037 secs (864 bytes/sec)
ftp>dir

Listing /ftp directory from 192.168.1.1:
0   : admin.txt                               32
1   : asa842-k8.bin                          5571584
2   : asa923-k8.bin                          30468096
3   : c1841-advipservicesk9-mz.124-15.T1.bin 33591768
4   : c1841-ipbase-mz.123-14.T7.bin          13832032
5   : c1841-ipbasek9-mz.124-12.bin           16599160
6   : c1900-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
```

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The screenshot shows a Cisco Packet Tracer PC Command Line window for PC1. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.1
Trying to connect...192.168.1.1
Connected to 192.168.1.1
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get admin.txt

Reading file admin.txt from 192.168.1.1:
File transfer in progress...

[Transfer complete - 32 bytes]

32 bytes copied in 0.011 secs (2909 bytes/sec)
ftp>dir

Listing /ftp directory from 192.168.1.1:
0   : admin.txt                               32
1   : asa842-k8.bin                           5571584
2   : asa923-k8.bin                           30468096
3   : c1841-advipservicesk9-mz.124-15.T1.bin  33591768
4   : c1841-ipbase-mz.123-14.T7.bin           13832032
5   : c1841-ipbasek9-mz.124-12.bin            16599160
6   : c1900-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
```

At the bottom of the Command Prompt window, there is a checkbox labeled "Top" which is currently unchecked.