

CS342: Networks lab 5

Group-41

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Part A:

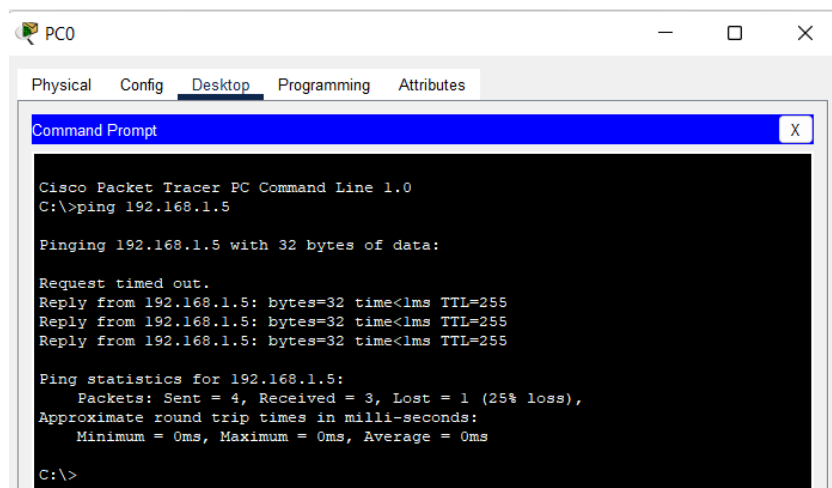
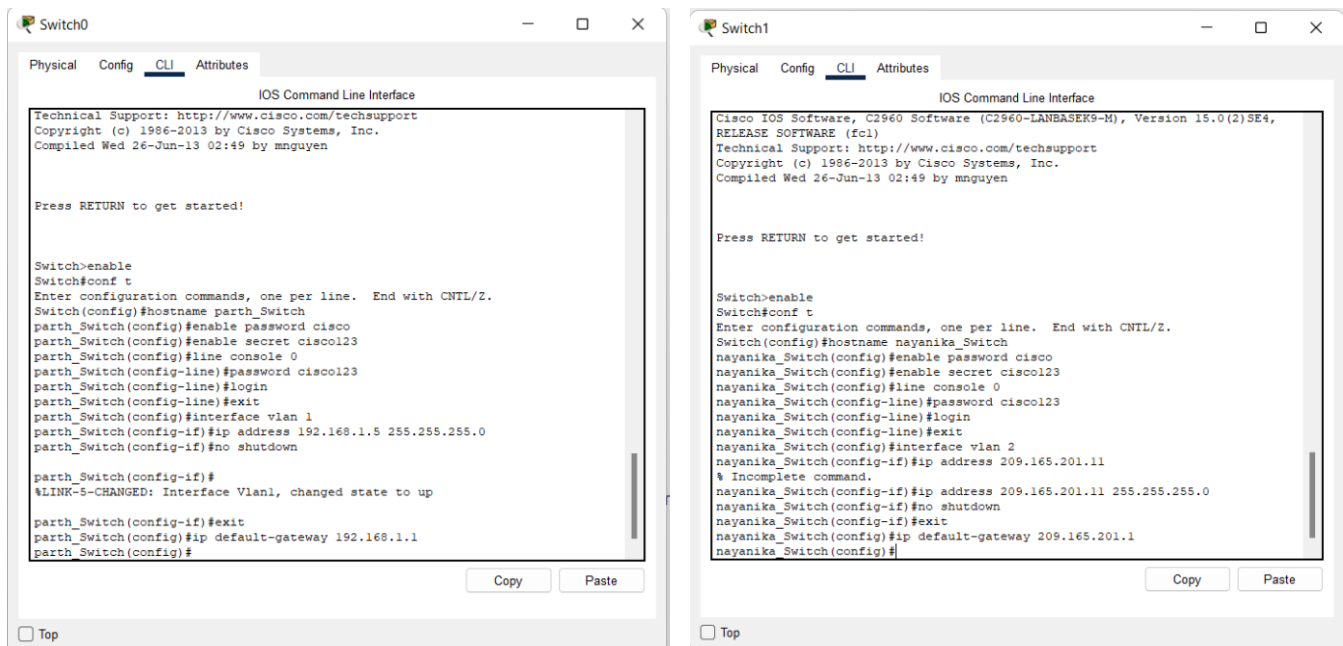
PC1 configuration window showing IP Configuration for FastEthernet0. The interface is set to Static. The IPv4 Address is 209.165.201.10, Subnet Mask is 255.255.255.0, Default Gateway is 209.165.201.1, and DNS Server is 0.0.0.0. The IPv6 Configuration is also set to Static, with a Link Local Address of FE80::20D:B0FF:FE7A:38E7. The 802.1X Security is disabled.

Server0 configuration window showing IP Configuration. The interface is set to Static. The IPv4 Address is 192.168.1.3, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.1.1, and DNS Server is 0.0.0.0. The IPv6 Configuration is also set to Static, with a Link Local Address of FE80::202:16FF:FEED:E500. The 802.1X Security is disabled.

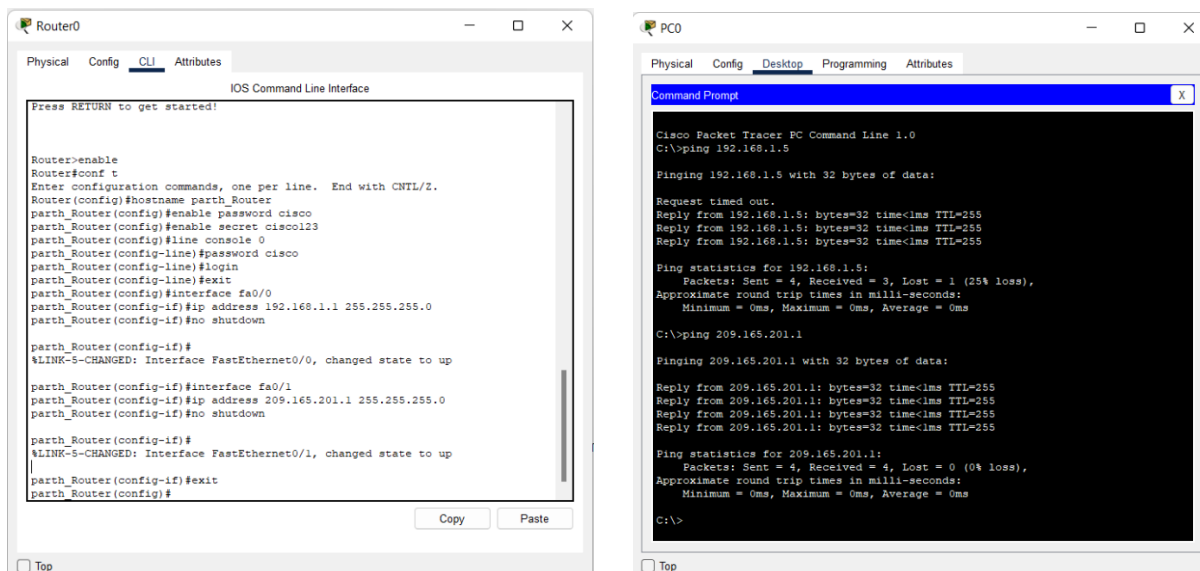
PC0 configuration window showing IP Configuration for FastEthernet0. The interface is set to Static. The IPv4 Address is 192.168.1.2, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.1.1, and DNS Server is 0.0.0.0. The IPv6 Configuration is also set to Static, with a Link Local Address of FE80::2D0:58FF:FEA0:1EB6. The 802.1X Security is disabled.

Server1 configuration window showing IP Configuration. The interface is set to Static. The IPv4 Address is 209.165.201.13, Subnet Mask is 255.255.255.0, Default Gateway is 209.165.201.1, and DNS Server is 0.0.0.0. The IPv6 Configuration is also set to Static, with a Link Local Address of FE80::260:70FF:FE28:3ADB. The 802.1X Security is disabled.

Part – B:

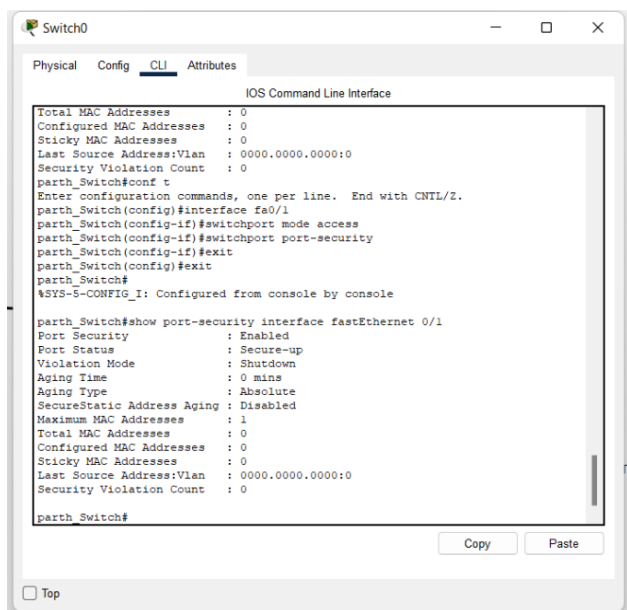


Part C:



Part D1:

I :

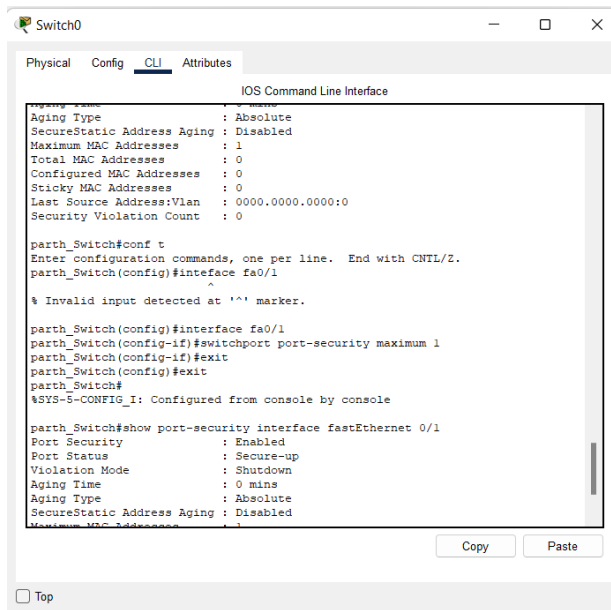


```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0
parth_Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
parth_Switch(config)#interface fa0/1
parth_Switch(config-if)#switchport mode access
parth_Switch(config-if)#switchport port-security
parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console

parth_Switch#show port-security interface fastEthernet 0/1
Port Security : Enabled
Port Status : Secure-up
Violation Mode : Shutdown
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

parth_Switch#
```

II :



```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

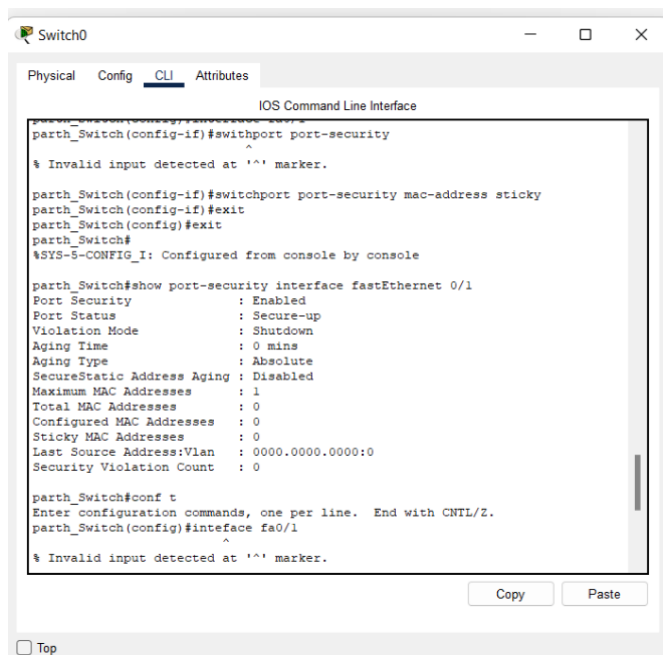
parth_Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
parth_Switch(config)#interface fa0/1
^
% Invalid input detected at '^' marker.

parth_Switch(config)#interface fa0/1
parth_Switch(config-if)#switchport port-security maximum 1
parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console

parth_Switch#show port-security interface fastEthernet 0/1
Port Security : Enabled
Port Status : Secure-up
Violation Mode : Shutdown
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

parth_Switch#
```

III :



```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface
parth_Switch(config-if)#switchport port-security
^
% Invalid input detected at '^' marker.

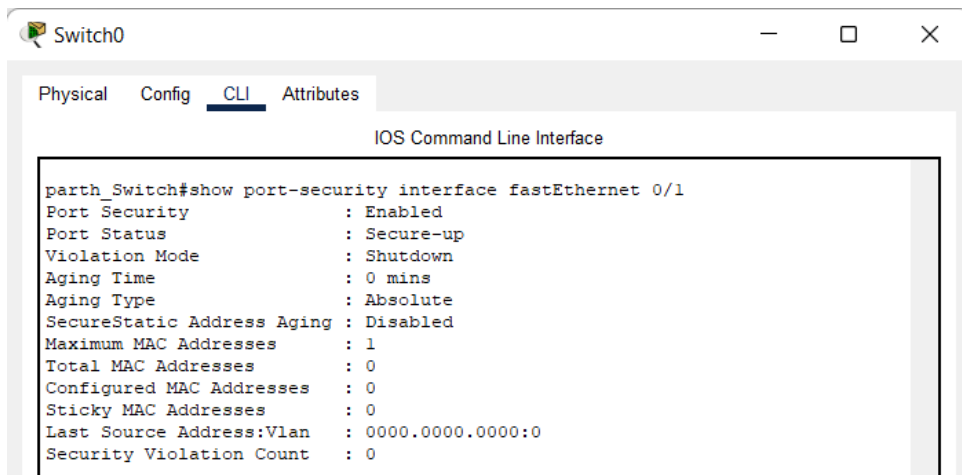
parth_Switch(config-if)#switchport port-security mac-address sticky
parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console

parth_Switch#show port-security interface fastEthernet 0/1
Port Security : Enabled
Port Status : Secure-up
Violation Mode : Shutdown
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

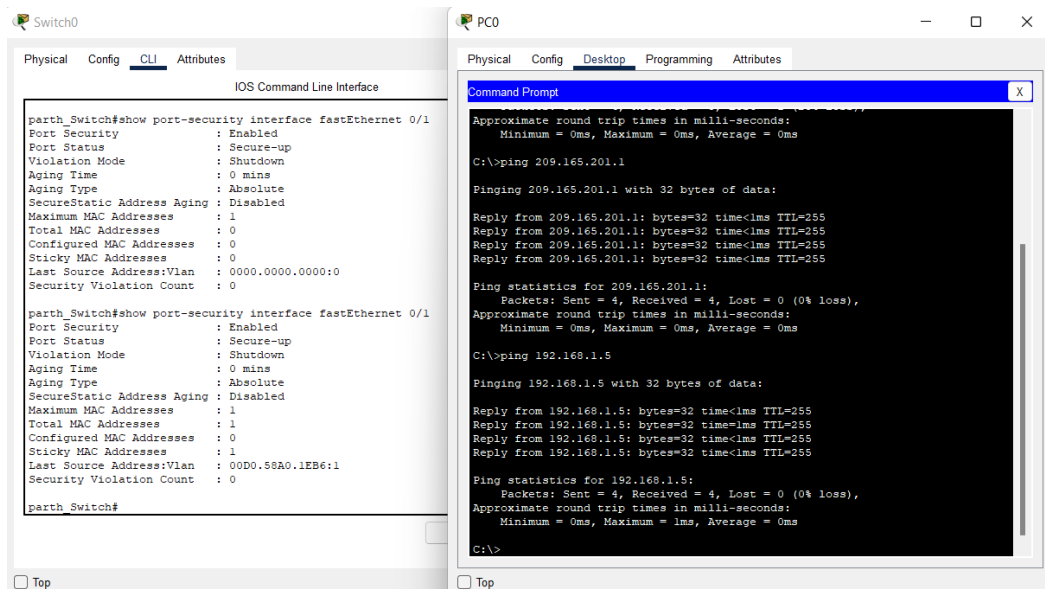
parth_Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
parth_Switch(config)#interface fa0/1
^
% Invalid input detected at '^' marker.

parth_Switch#
```

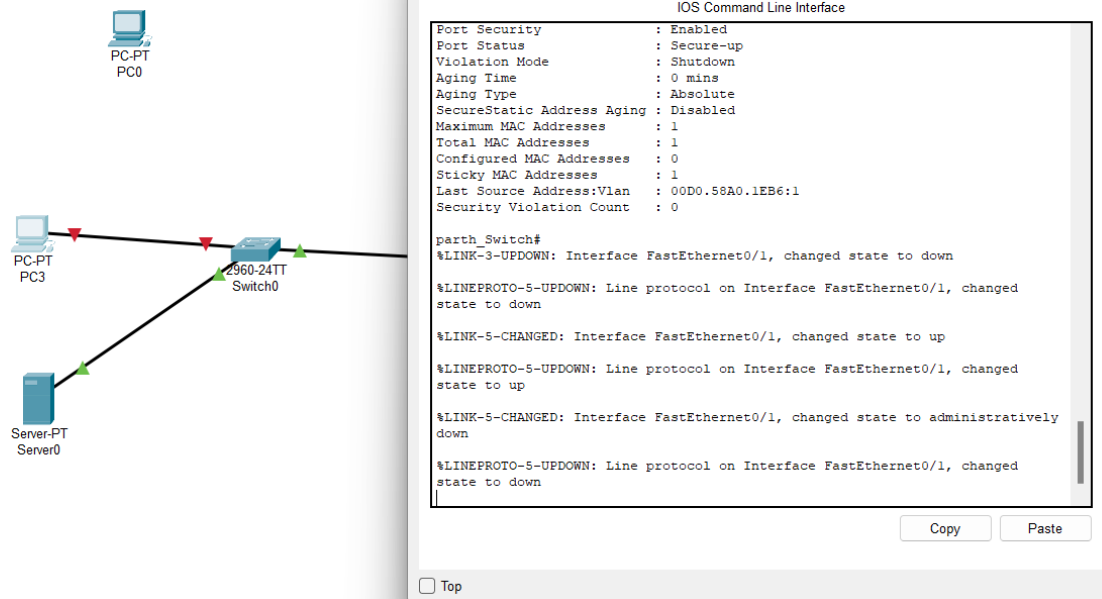
Part D2:



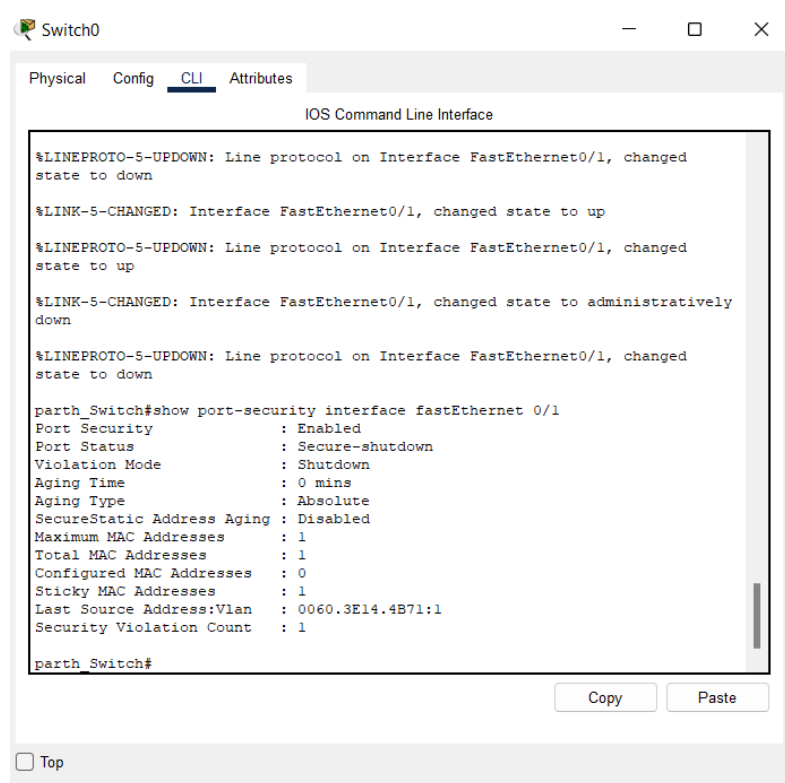
Part D3 and D4:




Part D5:



Part D6:



Part D7:

 Switch0

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Enter configuration commands, one per line. End with CNTL/Z.
parth_Switch(config)#interface fa0/1
parth_Switch(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to down
parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console

parth_Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
parth_Switch(config)#interface fa0/1
parth_Switch(config-if)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administratively
down
parth_Switch(config-if)#no shutdown

parth_Switch(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to up

parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy

Paste

☐ Top

Part E1:

```
parth_Switch(config-if)#exit
parth_Switch(config)#exit
parth_Switch#
%SYS-5-CONFIG_I: Configured from console by console

parth_Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
parth_Switch#
```

Part E2:

```
[OK]
parth_Switch#copy startup-config tftp
Address or name of remote host []? 192.168.1.3
Destination filename [parth_Switch-config]?

Writing startup-config....!!
[OK - 1385 bytes]

1385 bytes copied in 3.016 secs (459 bytes/sec)
parth_Switch#
```

Part E3:

User Access Verification

Password:

```
parth_Router>enable
Password:
parth_Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
parth_Router#copy startup-config tftp
Address or name of remote host []? 192.168.1.3
Destination filename [parth_Router-config]?

Writing startup-config....!!
[OK - 681 bytes]

681 bytes copied in 3.011 secs (226 bytes/sec)
parth_Router#
```