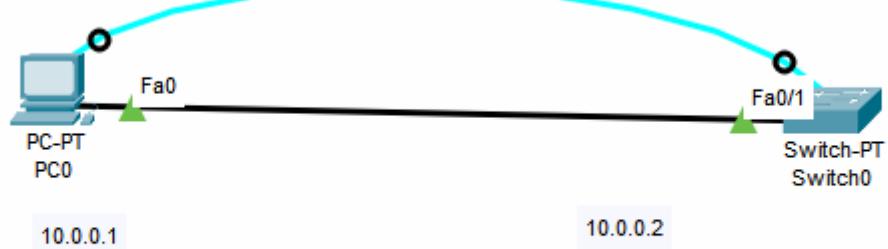


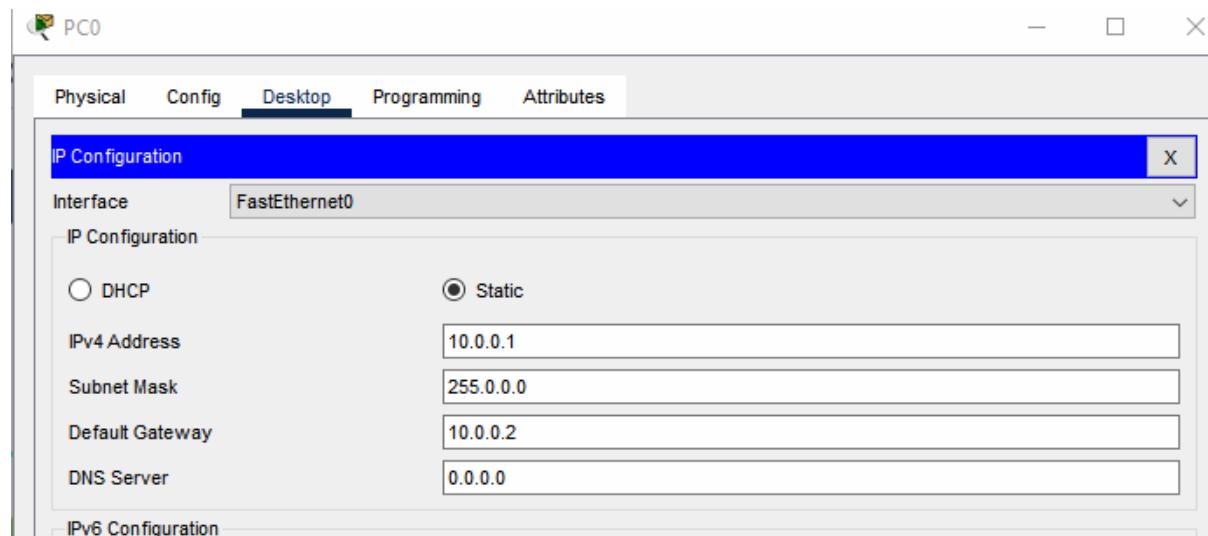
Task 10(b)

10 b) Configure a remote login using SSH and Telnet.

Telnet:

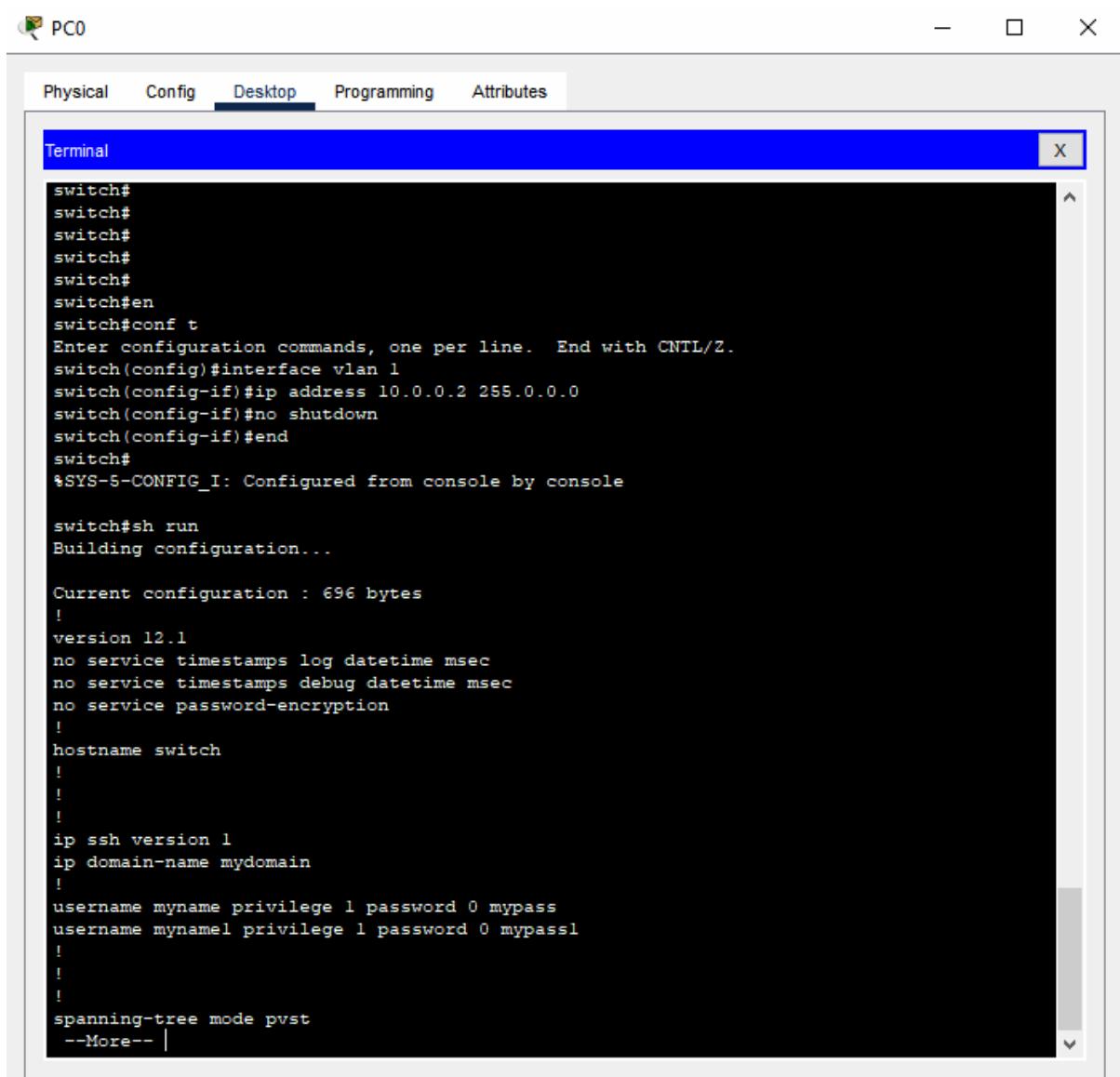


First connect the console cable from PC0 RS232 port to Switch console port.



From PC0

Go to terminal



The screenshot shows a terminal window titled "Terminal" within a software interface titled "PC0". The window has tabs at the top: Physical, Config, Desktop, Programming, and Attributes. The "Config" tab is selected. The terminal window displays the following configuration commands:

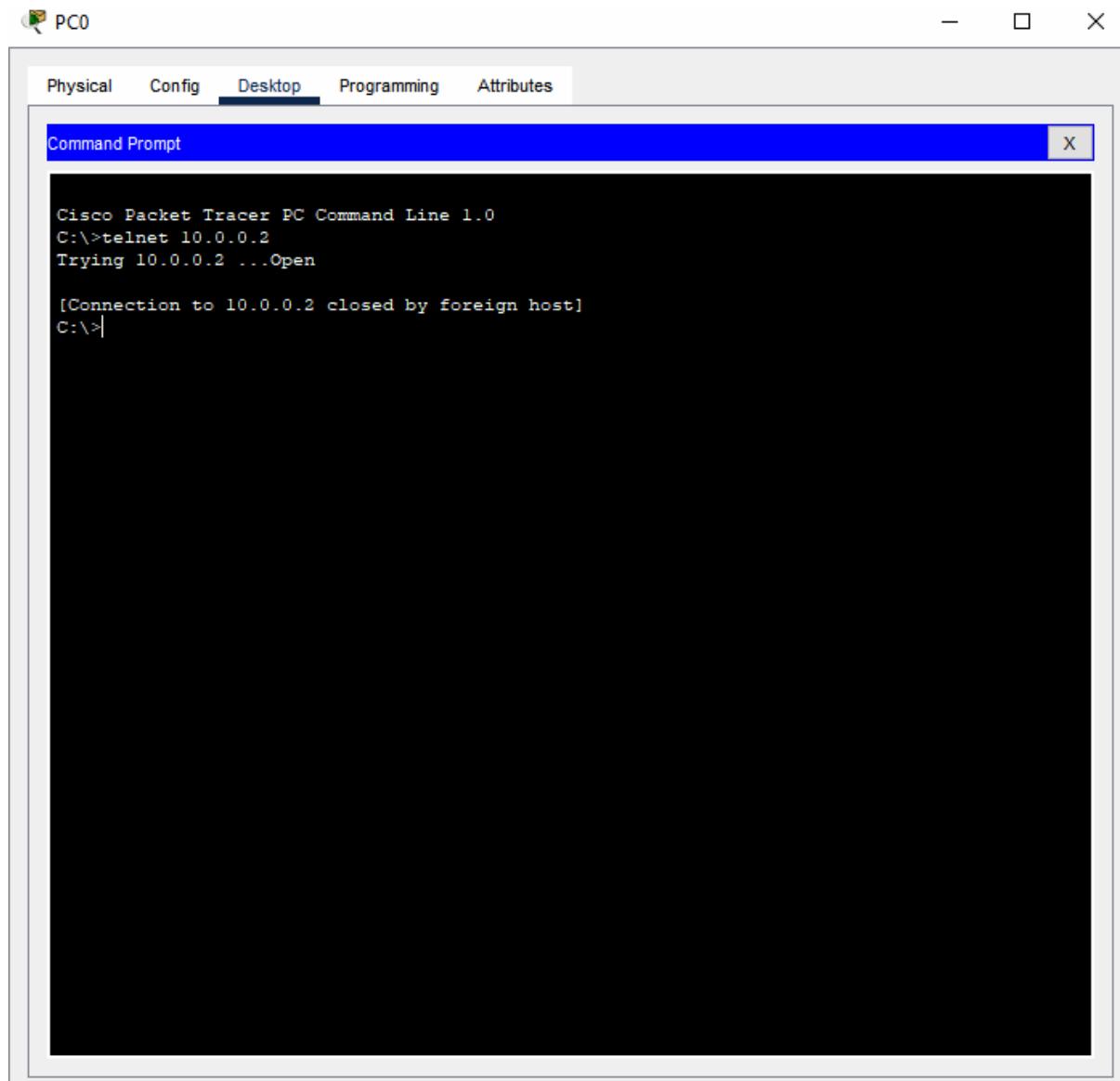
```
switch#
switch#
switch#
switch#
switch#
switch#en
switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)#interface vlan 1
switch(config-if)#ip address 10.0.0.2 255.0.0.0
switch(config-if)#no shutdown
switch(config-if)#end
switch#
%SYS-5-CONFIG_I: Configured from console by console

switch#sh run
Building configuration...

Current configuration : 696 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname switch
!
!
!
ip ssh version 1
ip domain-name mydomain
!
username myname privilege 1 password 0 mypass
username mynamel privilege 1 password 0 mypassl
!
!
!
spanning-tree mode pvst
--More-- |
```

Before Telnet configuration:

Go to command prompt check telnet



PC0

Physical Config Desktop Programming Attributes

Terminal X

```
switch#
switch#
switch#
switch#
switch#en
switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)#username myname password mypass
switch(config)#line vty 0 15
switch(config-line)#login local
switch(config-line)#transport input telnet
switch(config-line)#end
switch#
%SYS-5-CONFIG_I: Configured from console by console

switch#sh run
Building configuration...

Current configuration : 756 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname switch
!
!
!
ip ssh version 1
ip domain-name mydomain
!
username myname privilege 1 password 0 mypass
username mynamel privilege 1 password 0 mypassl
username mynamepasswordmypass privilege 1 password 0
!
!
!
--More--
```

PC0

Physical Config Desktop Programming Attributes

Terminal X

```
switch#en
switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)#username mynamepassword mypass
^
* Invalid input detected at '^' marker.

switch(config)#username mynamepasswordmypass
switch(config)#line vty 0 15
switch(config-line)#login local
switch(config-line)#transport input telnet
switch(config-line)#sh run
^
* Invalid input detected at '^' marker.

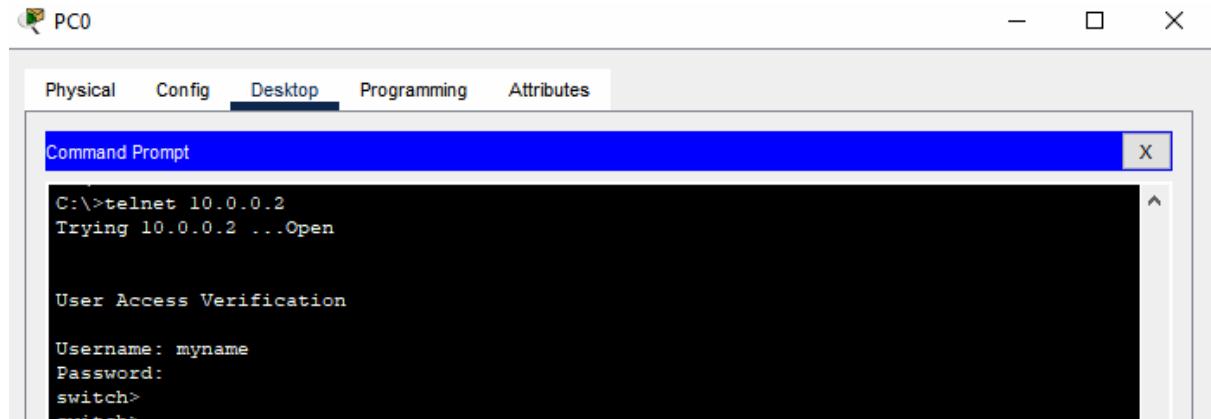
switch(config-line)#end
switch#
SYS-5-CONFIG_I: Configured from console by console

switch#sh run
Building configuration...

Current configuration : 756 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname switch
!
!
!
ip ssh version 1
ip domain-name mydomain
!
username myname privilege 1 password 0 mypass
username mynamel privilege 1 password 0 mypassl
username mynamepasswordmypass privilege 1 password 0
```

After Telnet configuration:

Go to command prompt check telnet



The screenshot shows a Windows desktop environment with a window titled "Command Prompt". The window contains the following text output from a telnet session:

```
C:\>telnet 10.0.0.2
Trying 10.0.0.2 ...Open

User Access Verification

Username: myname
Password: switch>
switch>
```

SSH:

PC0

Physical Config Desktop Programming Attributes

Terminal

```
Switch>
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname myswitch
myswitch(config)#ip domain-name mydomain
myswitch(config)#username myname1 password mypass1
myswitch(config)#line vty 0 15
myswitch(config-line)#login local
myswitch(config-line)#transport input ssh
myswitch(config-line)#exit
myswitch(config)#crypto key generate rsa
The name for the keys will be: myswitch.mydomain
Choose the size of the key modulus in the range of 360 to 4096 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.

How many bits in the modulus [512]:
* Generating 512 bit RSA keys, keys will be non-exportable...[OK]

myswitch(config)#exit
*Mar 1 0:42:22.543: RSA key size needs to be at least 768 bits for ssh version 2
*Mar 1 0:42:22.543: %SSH-5-ENABLED: SSH 1.5 has been enabled
myswitch#
%SYS-5-CONFIG_I: Configured from console by console
```

Now test SSH connection

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ssh -l myname1 10.0.0.2
```

```
Password:
```

```
myswitch>
```

```
myswitch>
```

```
myswitch>
```