

Izaan Mohtashim

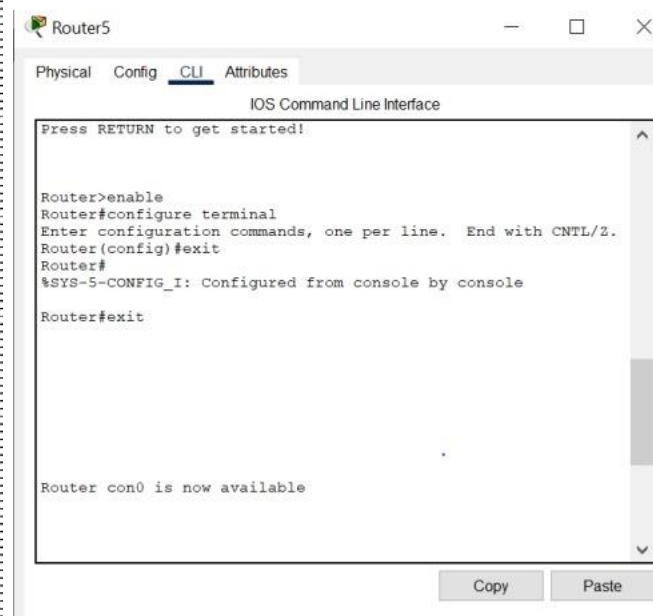
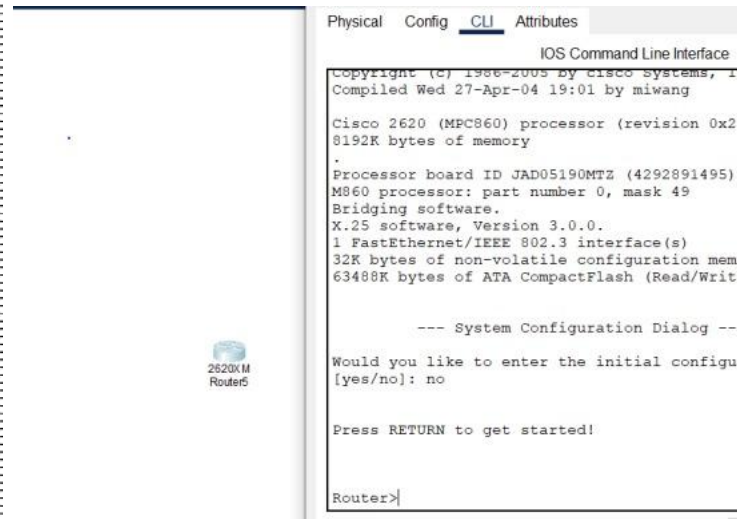
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Sec 5A

Computer Networks

Home Work 1

## Task 1



## Task 2

Router1

Physical Config CLI Attributes

IOS Command Line Interface

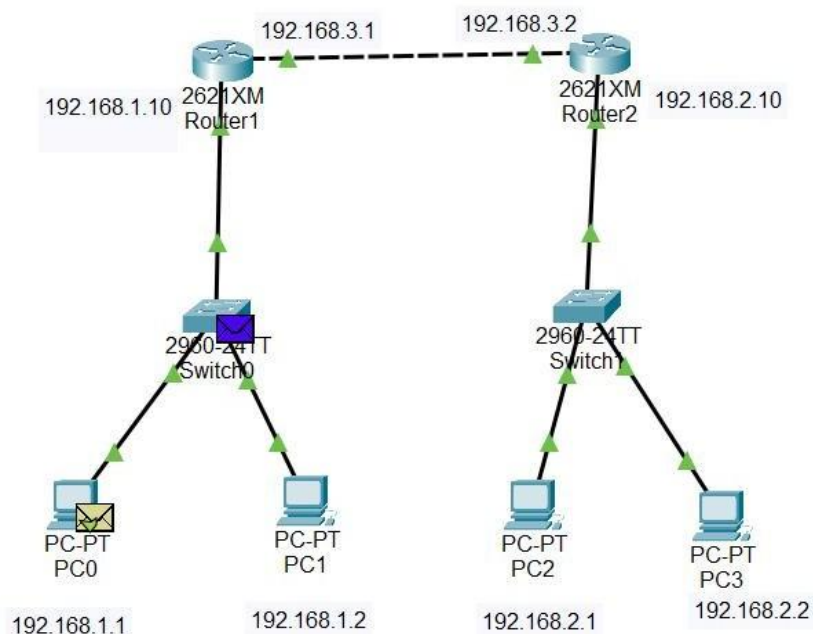
```
Router(config)#
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#hostname NP
NP(config)#hostname IZaan
IZaan(config)#clear
^
% Invalid input detected at '^' marker.

IZaan(config)#exit
IZaan#
%SYS-5-CONFIG_I: Configured from console by console

IZaan#
IZaan#hostname NP
^
% Invalid input detected at '^' marker.

IZaan#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
IZaan(config)#hostname NP
NP(config)#hostname IZaan
IZaan(config)#
```

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### Task 3

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
IZAAN#clock set ?
  hh:mm:ss Current Time
IZAAN#clock set 08:34:56
% Incomplete command.
IZAAN#clock set 08:34:56 ?
  <1-31> Day of the month
  MONTH Month of the year
IZAAN#clock set 08:34:56 23 ?
  MONTH Month of the year
IZAAN#clock set 08:34:56 23 8 ?
% Unrecognized command
IZAAN#clock set 08:34:56 23 September ?
  <1993-2035> Year
IZAAN#clock set 08:34:56 23 September 2022
IZAAN#show clock
8:35:6.56 UTC Fri Sep 23 2022
IZAAN#
IZAAN#
```

### Task 4

Router1

Physical Config CLI Attributes

IOS Command Line Interface

IZAAN con0 is now available

Press RETURN to get started.

Welcome to FAST

IZAAN>

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## Task 5

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
IZAAN#show running-config
Building configuration...

Current configuration : 602 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname IZAAN
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More-- !
!
```

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Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
!
!
!
interface FastEthernet0/0
ip address 192.168.1.10 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
--More-- ip address 192.168.3.1 255.255.255.0
duplex auto
speed auto
!
router rip
!
ip classless
ip route 192.168.0.0 255.255.0.0 192.168.3.2
!
ip flow-export version 9
!
!
!
banner motd ^CWelcome to FAST ^C
!
!
```

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```
IZAAN#show startup-config
startup-config is not present
IZAAN#
```

## Task 6

 Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
IZAAN(config)#enable ?
  password Assign the privileged level password
  secret Assign the privileged level secret
IZAAN(config)#enable enable secret NP333
      ^
% Invalid input detected at '^' marker.

IZAAN(config)#enable secret NP333
IZAAN(config)#exit
IZAAN#
%SYS-5-CONFIG_I: Configured from console by console

IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
IZAAN#
```

## Task 7

```
IZAAN#
IZAAN#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
IZAAN(config)#line console 0
IZAAN(config-line)#password Lycan
IZAAN(config-line)#login
IZAAN(config-line)#end
IZAAN#
%SYS-5-CONFIG_I: Configured from console by console

IZAAN#exit
```

```
##### 155 Command Line Interface 155 #####  
Press RETURN to get started.
```

```
Welcome to FAST
```

```
User Access Verification
```

```
Password:
```

```
Password:
```

```
IZAAN>enable
```

```
Password:
```

```
Password:
```

```
Password:
```

```
% Bad secrets
```

```
IZAAN>|
```

## **Task 8**

### **Telnet:**

Telnet is a network protocol that allows for two-way, collaborative, text-based communication between two computers as well as remote computer access. It uses the Transmission Control Protocol/Internet Protocol (TCP/IP) networking protocol to create remote sessions in response to user commands. ***You can Telnet into a router using the Telnet client included with Windows.***

***Example: typing telnet host name would connect a user to a host name named host name.***

For instance, a user can manage their files remotely via telnetting into the computer that hosts their website. A telnet session is a command line interface, as demonstrated.

### **Line VTY:**

VTY is a virtual port and used to get Telnet or SSH access to the device. VTY is solely used for inbound connections to the device..... The abstract "0 – 4" means that the device can allow 5 simultaneous virtual connections which may be Telnet or SSH.



## Task 9

### RING TOPOLOGY AND STAR TOPOLOGY

