EAST WEST UNIVERSITY

Department of Computer Science and Engineering
Summer 2025

Course Code : CSE405
Course Title: Computer Networks
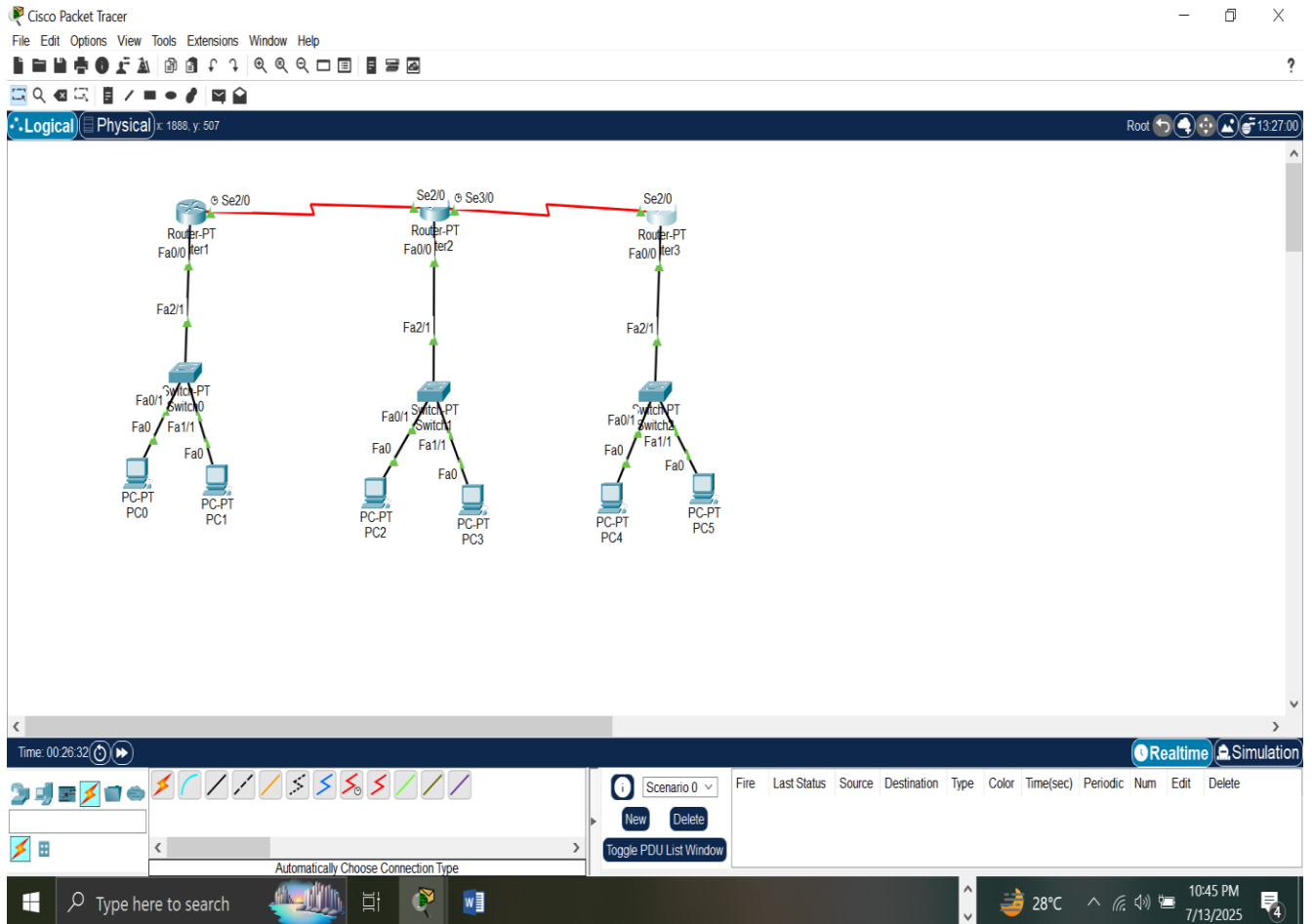**Section – 04**

Assignment 1

Submitted By :

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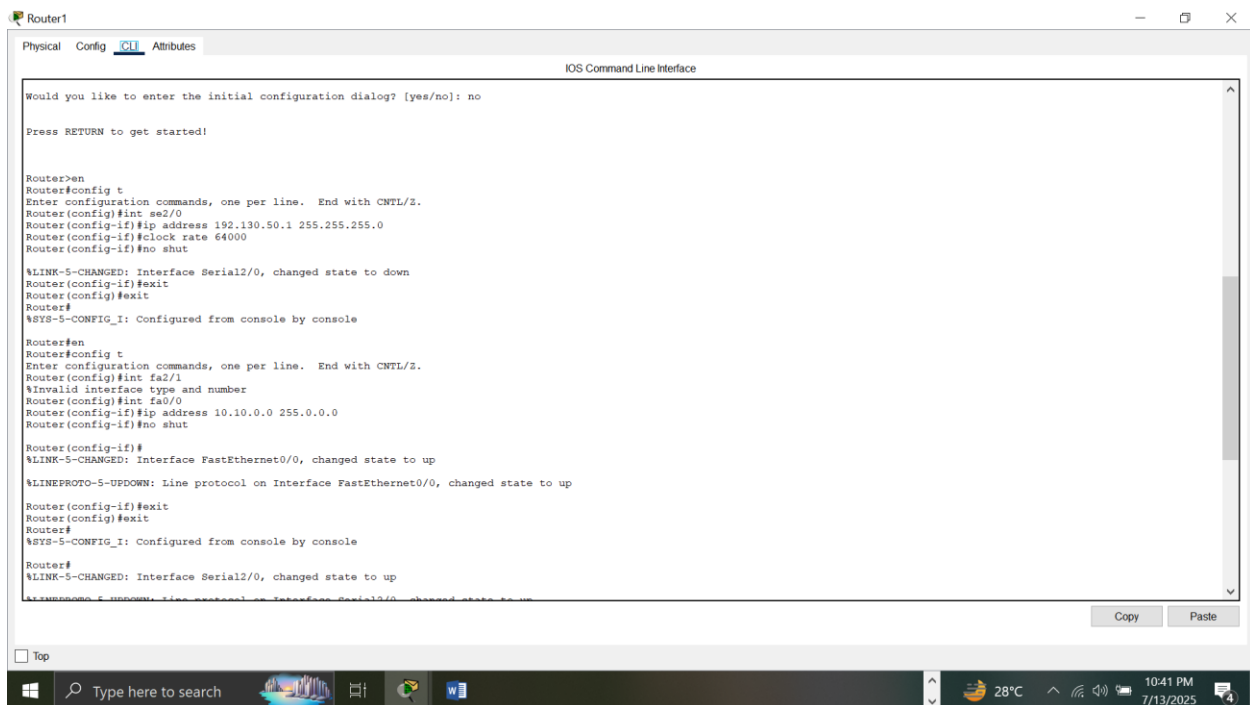
Date of Submission: July 13, 2025
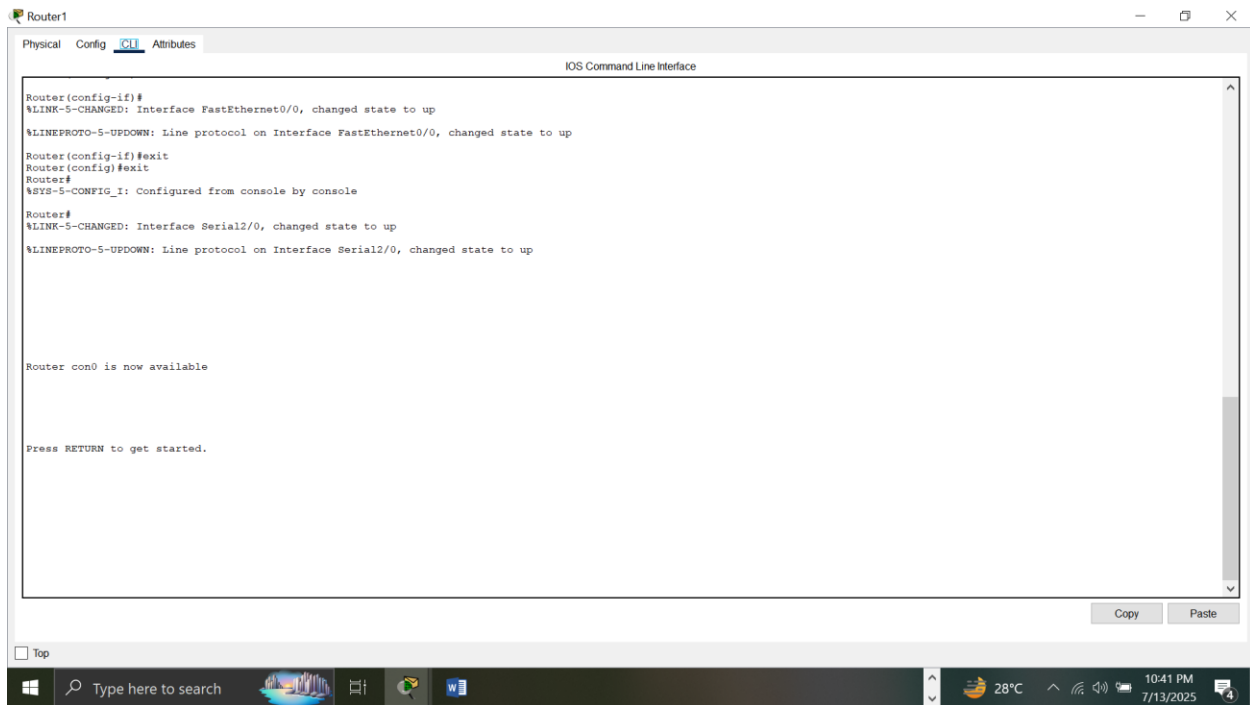
Designed network:

Relevant code for Router configuration:

Router 1:

```
Router 1

enable
configure terminal
hostname Router1
interface FastEthernet0/0
ip address 192.168.1.1 255.255.255.0
no shutdown
exit
interface Serial0/0/0
ip address 10.0.0.1 255.255.255.252
clock rate 64000
no shutdown
exit
router rip
version 2
network 192.168.1.0
network 10.0.0.0
exit
end
```

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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

Router#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up




Router con0 is now available



Press RETURN to get started.
```

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Router 2:

```
Router 2

enable
configure terminal
hostname Router2
interface FastEthernet0/0
ip address 192.168.2.1 255.255.255.0
no shutdown
exit
interface Serial0/0/0
ip address 10.0.0.2 255.255.255.252
no shutdown
exit
interface Serial0/0/1
ip address 10.0.0.5 255.255.255.252
clock rate 64000
no shutdown
exit
router rip
version 2
network 192.168.2.0
network 10.0.0.0
exit
end
```
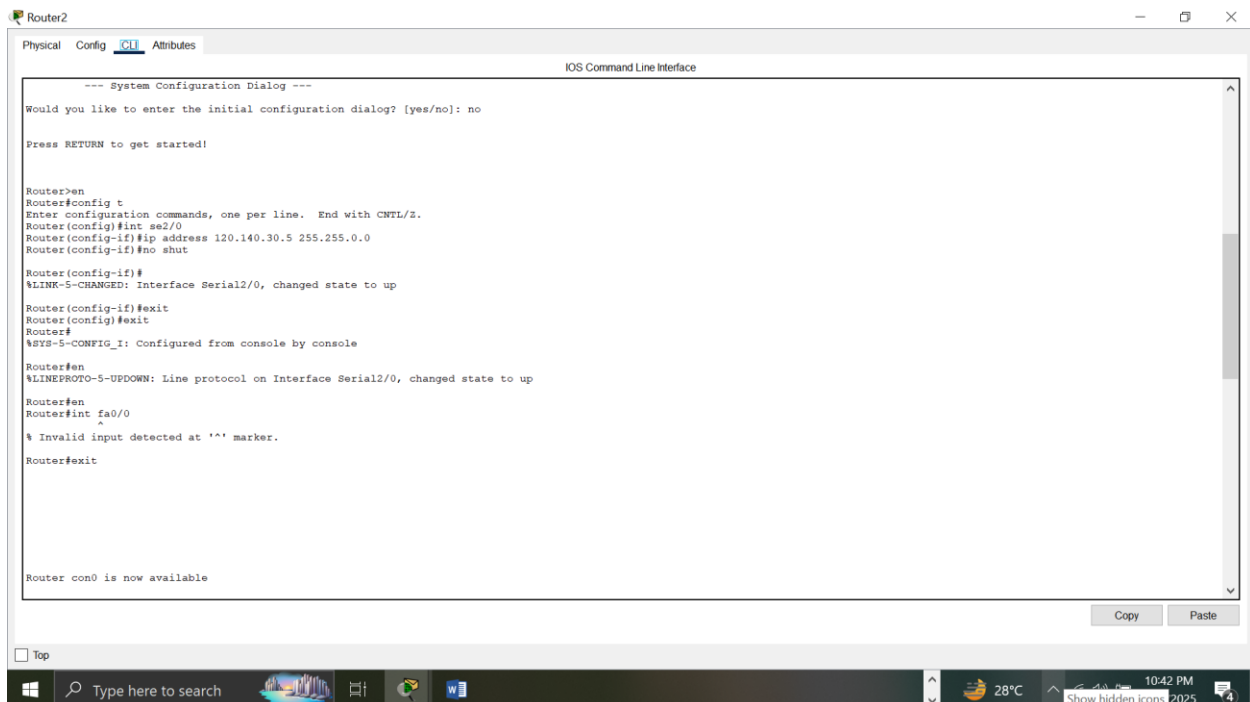
Physical | Config | CLI | Attributes

IOS Command Line Interface

```
Router con0 is now available




Press RETURN to get started.










Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip adress 123.130.14.6 255.255.0.0
                     ^
% Invalid input detected at '^' marker.

Router(config-if)#ip address 123.130.14.6 255.255.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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

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Physical | Config | CLI | Attributes

IOS Command Line Interface

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

Router#en
Router#confit t
          ^
% Invalid input detected at '^' marker.

Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)# int se3/0
Router(config-if)#ip address 12.10.0.6 255.255.0.0
Router(config-if)#clock rate 64000
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up





Router con0 is now available




Press RETURN to get started.
```
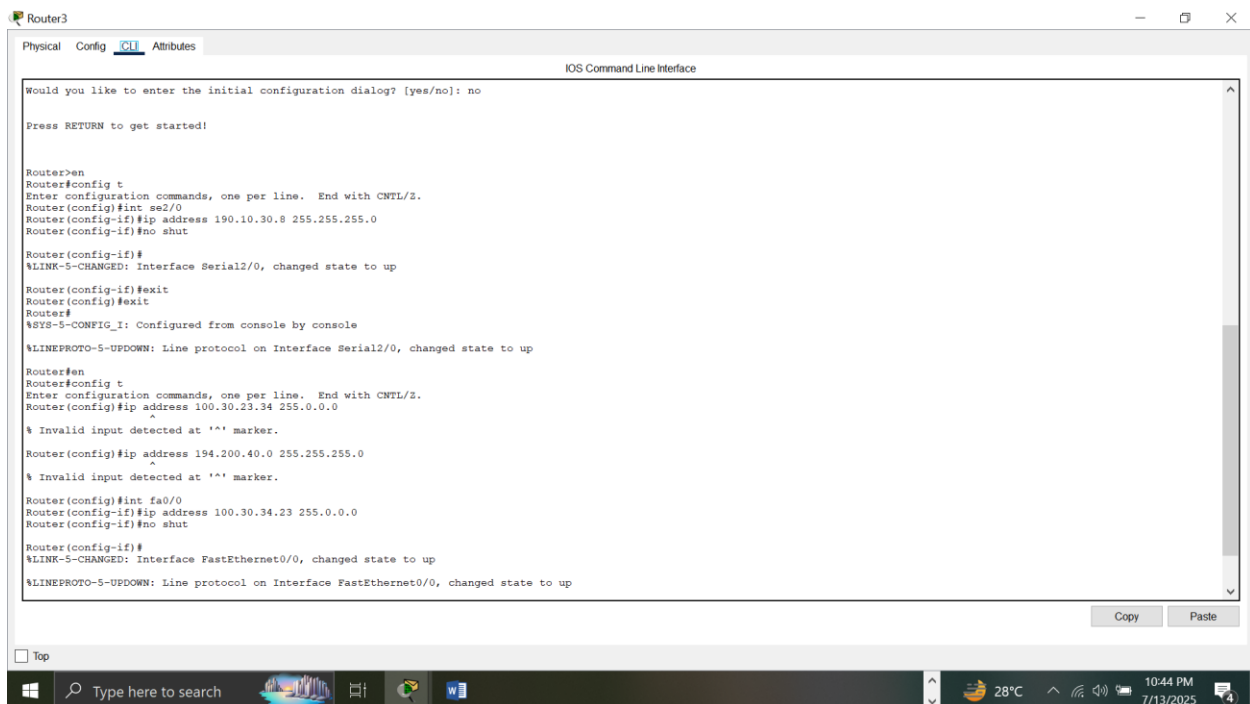
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Router 3:

```
Router 3

enable
configure terminal
hostname Router3
interface FastEthernet0/0
ip address 192.168.3.1 255.255.255.0
no shutdown
exit
interface Serial0/0/1
ip address 10.0.0.6 255.255.255.252
no shutdown
exit
router rip
version 2
network 192.168.3.0
network 10.0.0.0
exit
end
```

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip address 190.10.30.8 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router#en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#ip address 100.30.23.34 255.0.0.0
                          ^
% Invalid input detected at '^' marker.

Router(config)#ip address 194.200.40.0 255.255.255.0
                          ^
% Invalid input detected at '^' marker.

Router(config)#int fa0/0
Router(config-if)#ip address 100.30.34.23 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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

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