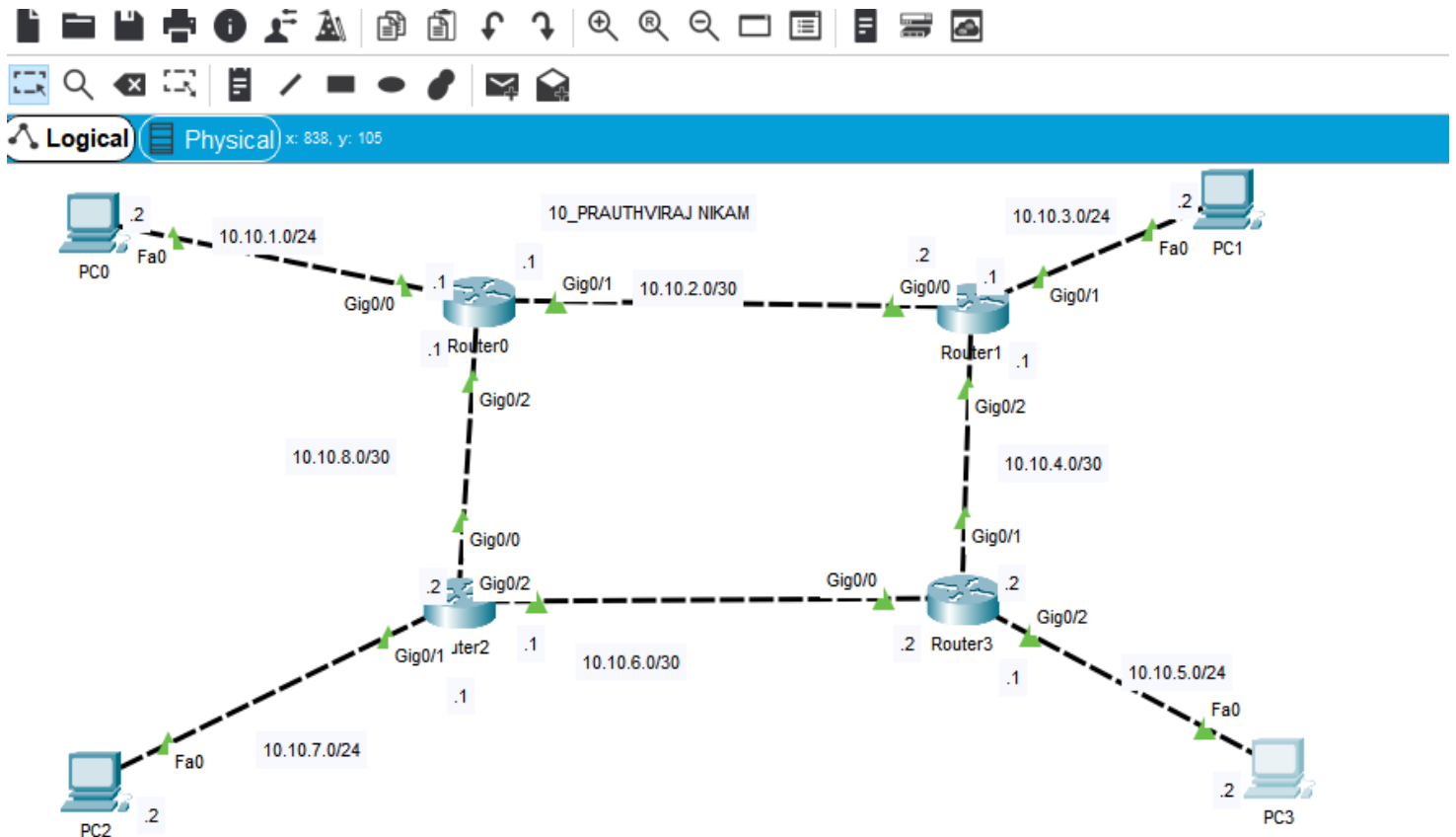


Module:- Fundamental Computer Network Date:- 07/10/2022

Assignment :- 01 (Static Routing)

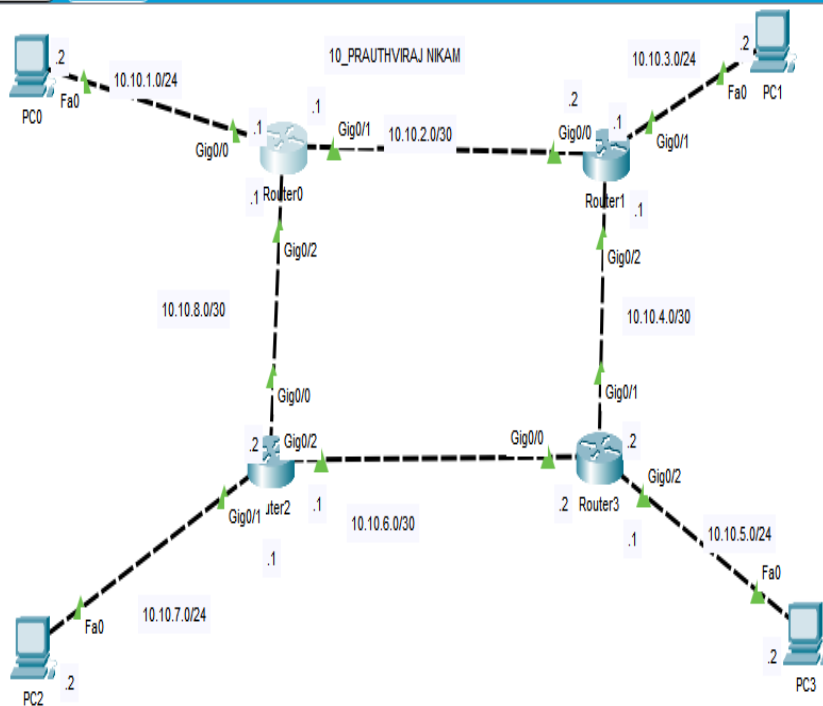
IP Schema for Your Network: xxx. Roll_Number .yyy.zzz

Example: If your roll No. ends with 25, then the IP you can use as follows.





Logical Physical x 45%, y: 371



Router0

Physical Config CLI Attributes

IOS Command Line Interface

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
 N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
 i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
 inter area
 * - candidate default, U - per-user static route, o - ODR
 P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 6 subnets, 3 masks

C 10.10.1.0/24 is directly connected, GigabitEthernet0/0
 L 10.10.1.1/32 is directly connected, GigabitEthernet0/0
 C 10.10.2.0/30 is directly connected, GigabitEthernet0/1
 L 10.10.2.1/32 is directly connected, GigabitEthernet0/1
 C 10.10.8.0/30 is directly connected, GigabitEthernet0/2
 L 10.10.8.1/32 is directly connected, GigabitEthernet0/2

Router#config ter
 Enter configuration commands, one per line. End with CNTL/Z.
 Router(config)#ip route 10.10.3.0 255.255.255.0 10.10.2.2
 Router(config)#ip route 10.10.4.0 255.255.255.0 10.10.2.2
 Router(config)#ip route 10.10.4.0 255.255.255.252 10.10.2.2
 Router(config)#ip route 10.10.5.0 255.255.255.0 10.10.2.2
 Router(config)#

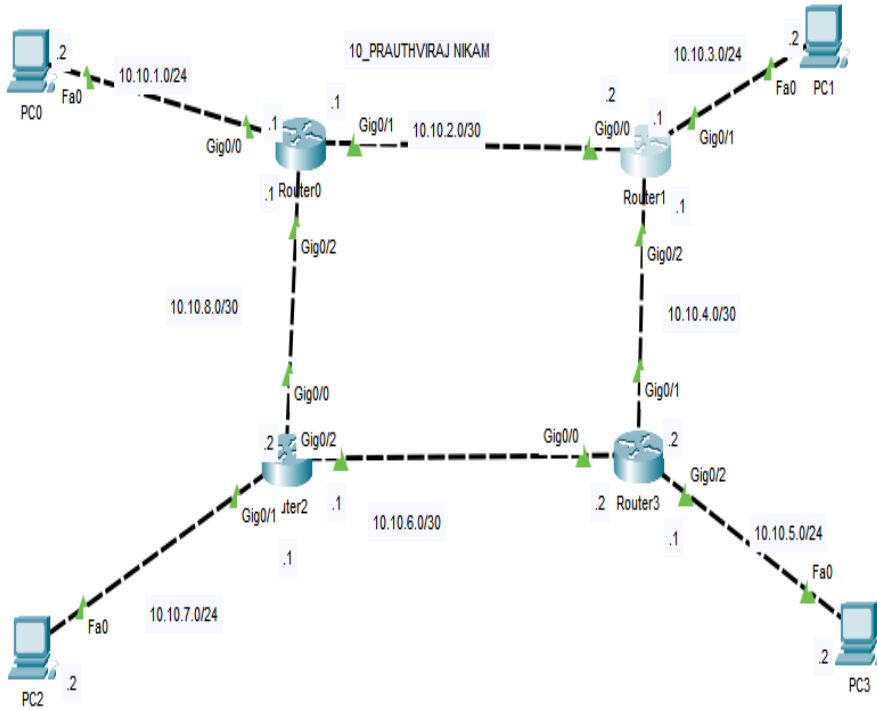
Ctrl+F6 to exit CLI focus

Copy

Paste



Logical Physical x: 667, y: 350



Router1

Physical Config **CLI** Attributes

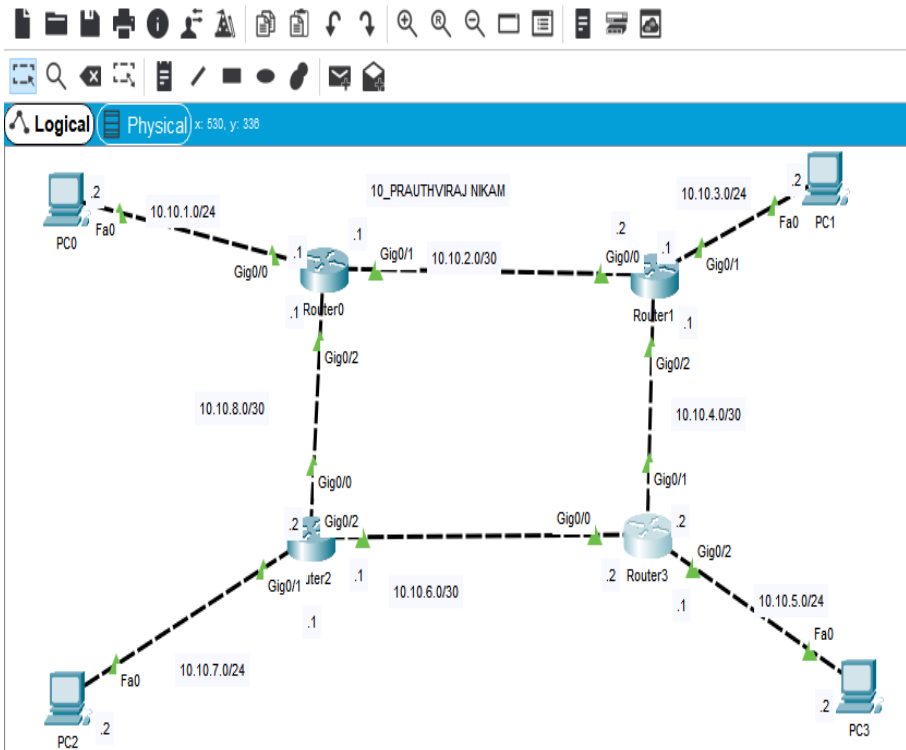
IOS Command Line Interface

```
Router>en
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#ip route 10.10.5.0 255.255.255.0 10.10.2.2
%Invalid next hop address (it's this router)
Router(config)#ip route 10.10.5.0 255.255.255.0 10.10.4.2
Router(config)#
```

Router con0 is now available

Ctrl+F6 to exit CLI focus

Copy Paste



Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

Press RETURN to get started.

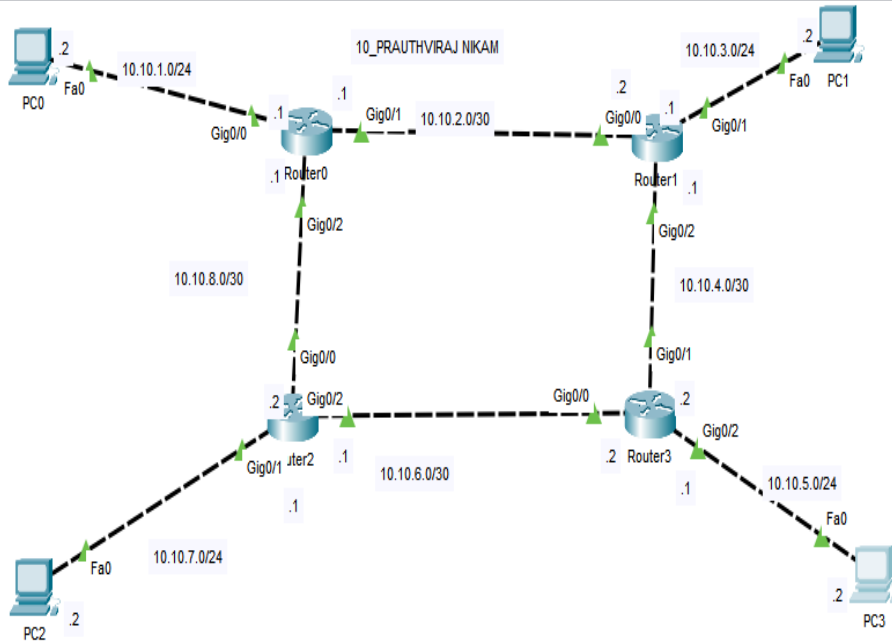
```
Router>en
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 10.10.3.0 255.255.255.0 10.10.4.1
Router(config)#ip route 10.10.2.0 255.255.255.252 10.10.4.1
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.4.1
Router(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste



Logical Physical x: 544, y: 382



PC3

Physical

Config

Desktop

Programming

Attributes

Command Prompt

Packet Tracer PC Command Line 1.0

C:\>ping 10.10.1.2

Pinging 10.10.1.2 with 32 bytes of data:

Reply from 10.10.1.2: bytes=32 time=1ms TTL=125

Reply from 10.10.1.2: bytes=32 time=11ms TTL=125

Reply from 10.10.1.2: bytes=32 time=11ms TTL=125

Reply from 10.10.1.2: bytes=32 time=12ms TTL=125

Ping statistics for 10.10.1.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 12ms, Average = 8ms

C:\>ping 10.10.3.2

Pinging 10.10.3.2 with 32 bytes of data:

Reply from 10.10.3.2: bytes=32 time=1ms TTL=126

Reply from 10.10.3.2: bytes=32 time<1ms TTL=126

Reply from 10.10.3.2: bytes=32 time<1ms TTL=126

Reply from 10.10.3.2: bytes=32 time<1ms TTL=126

Ping statistics for 10.10.3.2:

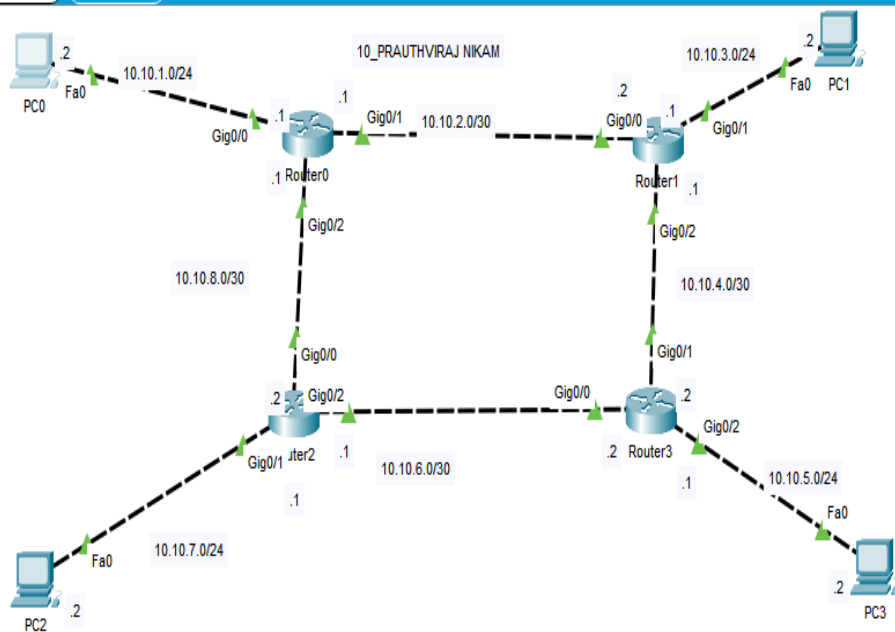
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

☐ Top



Logical Physical x: 523, y: 378



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 10.10.5.2

Pinging 10.10.5.2 with 32 bytes of data:

Reply from 10.10.5.2: bytes=32 time=1ms TTL=125
Reply from 10.10.5.2: bytes=32 time<1ms TTL=125
Reply from 10.10.5.2: bytes=32 time=12ms TTL=125
Reply from 10.10.5.2: bytes=32 time<1ms TTL=125

Ping statistics for 10.10.5.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms

C:\>cls
Invalid Command.

C:\>ping 10.10.3.2

Pinging 10.10.3.2 with 32 bytes of data:

Reply from 10.10.3.2: bytes=32 time=1ms TTL=126
Reply from 10.10.3.2: bytes=32 time<1ms TTL=126
Reply from 10.10.3.2: bytes=32 time<1ms TTL=126
Reply from 10.10.3.2: bytes=32 time<1ms TTL=126

Ping statistics for 10.10.3.2:
```

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