Subnetting:-

PC-PT
PC0
192.168.10.11

PC-PT
PC1
192.168.10.12

PC-PT
PC2
192.168.10.20

PC-PT
PC3
192.168.10.21

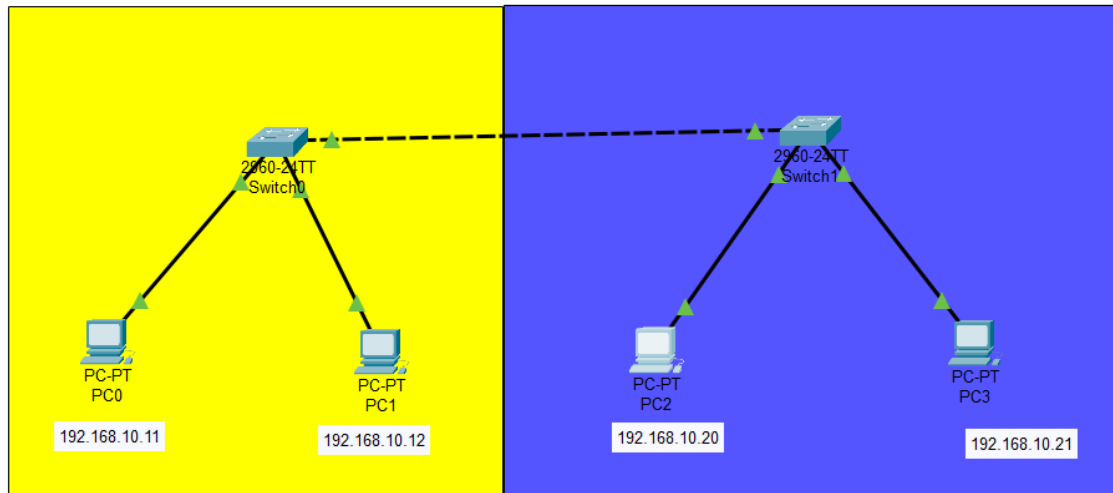2960-24TT
Switch0

2960-24TT
Switch1

PC0 — □ ×

Physical | Config | Desktop | Programming | Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth

FastEthernet0

Port Status ☑ On
Bandwidth ○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex ○ Half Duplex ○ Full Duplex ☑ Auto
MAC Address 0060.473D.1014

IP Configuration
○ DHCP
● Static
IPv4 Address 192.168.10.11
Subnet Mask 255.255.255.0

IPv6 Configuration
○ Automatic
● Static
IPv6 Address _____ / __
Link Local Address: FE80::260:47FF:FE3D:1014

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PC1

Physical | Config | Desktop | Programming | Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth

FastEthernet0

Port Status — ☑ On
Bandwidth — ◯ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex — ◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address — 0001.C9DA.09A3

IP Configuration
◯ DHCP
◉ Static
IPv4 Address — 192.168.10.12
Subnet Mask — 255.255.255.0

IPv6 Configuration
◯ Automatic
◉ Static
IPv6 Address — _____ /
Link Local Address: FE80::201:C9FF:FEDA:9A3

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PC2

Physical | Config | Desktop | Programming | Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth

FastEthernet0

Port Status — ☑ On
Bandwidth — ○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex — ○ Half Duplex ○ Full Duplex ☑ Auto
MAC Address — 00D0.BCCC.01CA

IP Configuration
○ DHCP
● Static
IPv4 Address — 192.168.10.20
Subnet Mask — 255.255.255.0
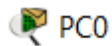
IPv6 Configuration
○ Automatic
● Static
IPv6 Address — /
Link Local Address: FE80::2D0:BCFF:FECC:1CA

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When subnet mask was in Class A:-

PC0

Physical   Config   Desktop   Programming   Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.20

Pinging 192.168.10.20 with 32 bytes of data:

Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

When subnet mask was in Class C:-

PC2

Physical   Config   Desktop   Programming   Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.11

Pinging 192.168.10.11 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.10.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```