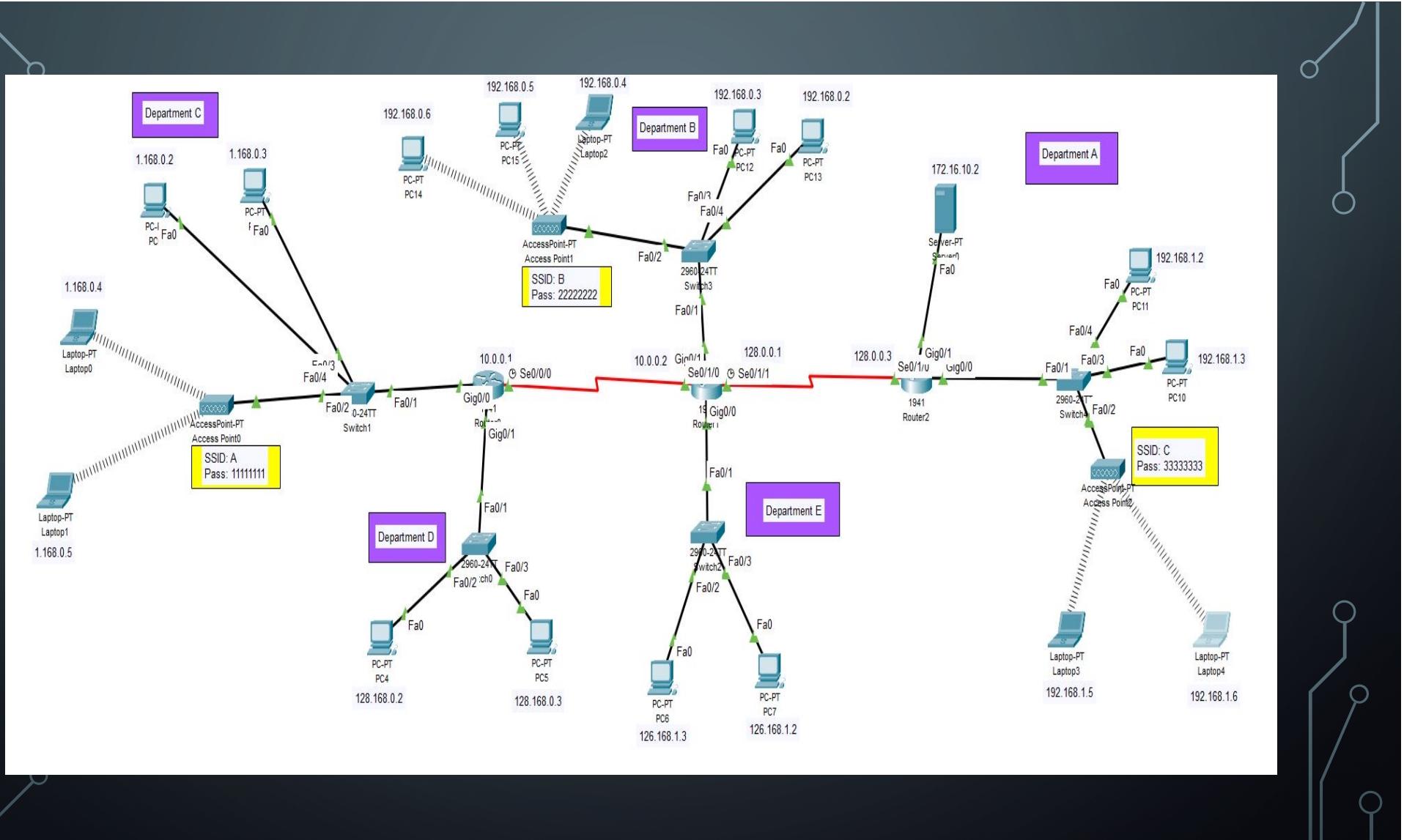




COMP 5352 -1 ADVANCED INTERNETWORKING TECHNOLOGY

**NORTH AMERICAN UNIVERSITY SPRING, 2021
KANYBEK DUISHEEV PH.D**

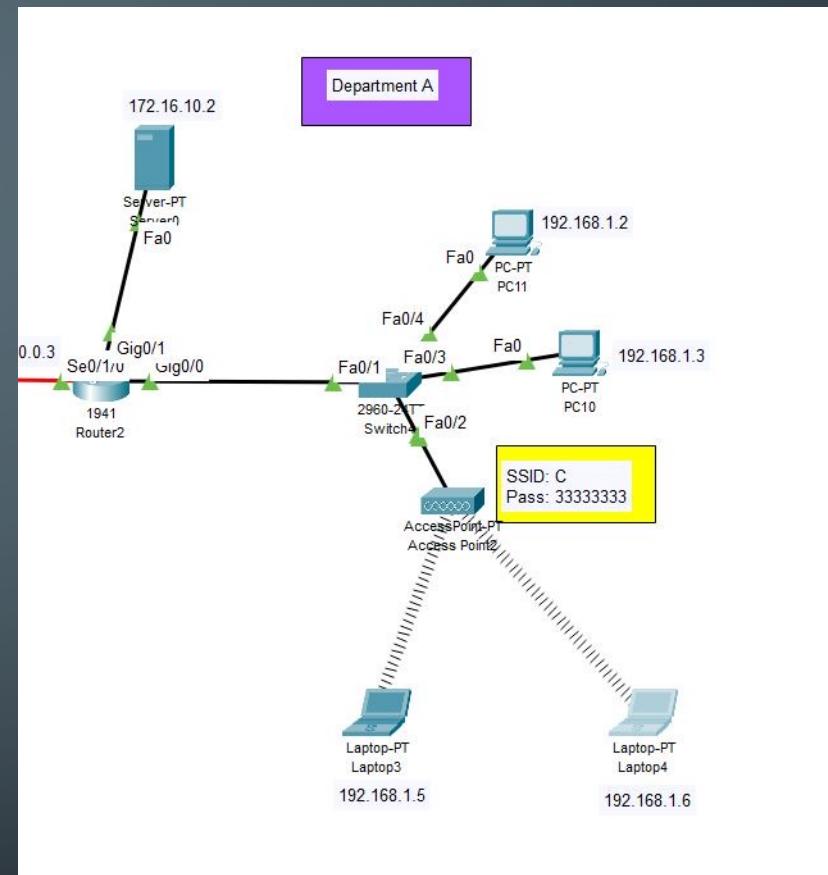
**ALI USTUNKOL
FINAL PROJECT PRESENTATION**



PART-1 DEPARTMENT A

- Devices;
- 2960 switch-AP-2 wired connected PC – 2 laptop wireless connected – 1941 Router – Server

IP Addresses;
Server: 172.16.10.2
PC11: 192.168.1.2
PC10: 192.168.1.3
Laptop4: 192.168.1.6
Laptop3: 192.168.1.5



PING TEST

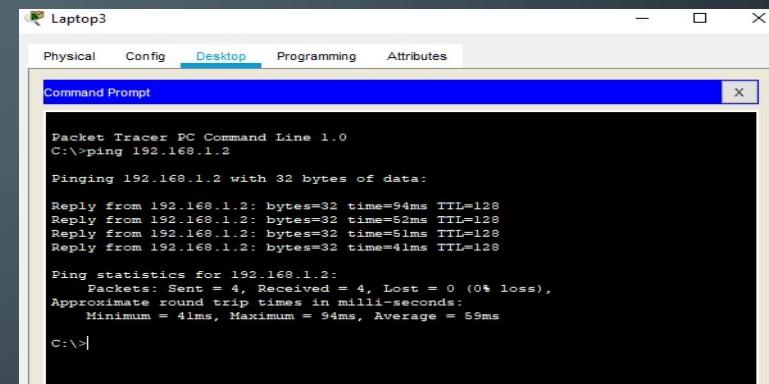
- Laptop4 to Server

```
C:\>ping 172.16.10.2

Pinging 172.16.10.2 with 32 bytes of data:

Reply from 172.16.10.2: bytes=32 time=72ms TTL=127
Reply from 172.16.10.2: bytes=32 time=53ms TTL=127
Reply from 172.16.10.2: bytes=32 time=40ms TTL=127
Reply from 172.16.10.2: bytes=32 time=19ms TTL=127

Ping statistics for 172.16.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 72ms, Average = 46ms
C:\>
```



- Laptop3 to PC11

PART - 2 DEPARTMENT B

- Devices;
- 1941 router – 2960 switch – 2
- wired cable connected PC – AP – 2
- wireless connected PC and laptop

IP addresses;

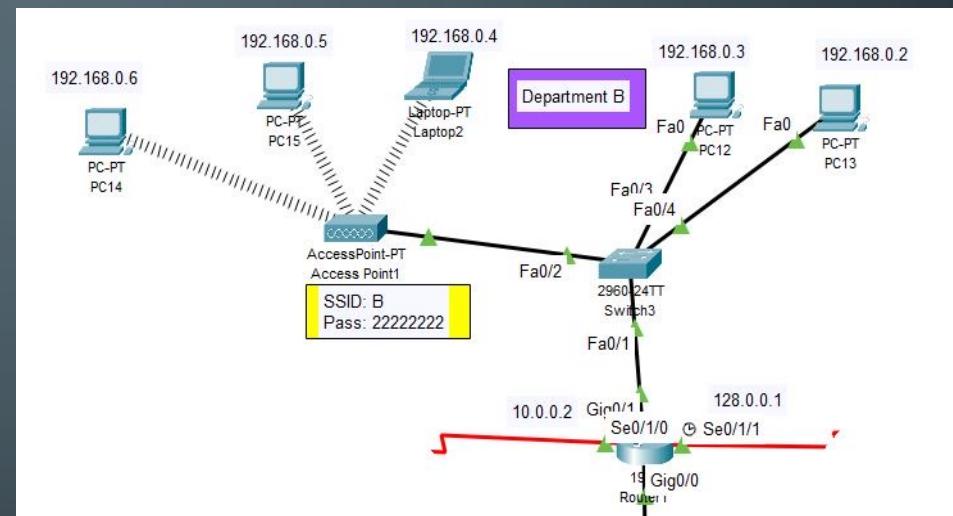
Pc12: 192.168.0.3

Pc13: 192.168.0.2

Laptop2: 192.168.0.4

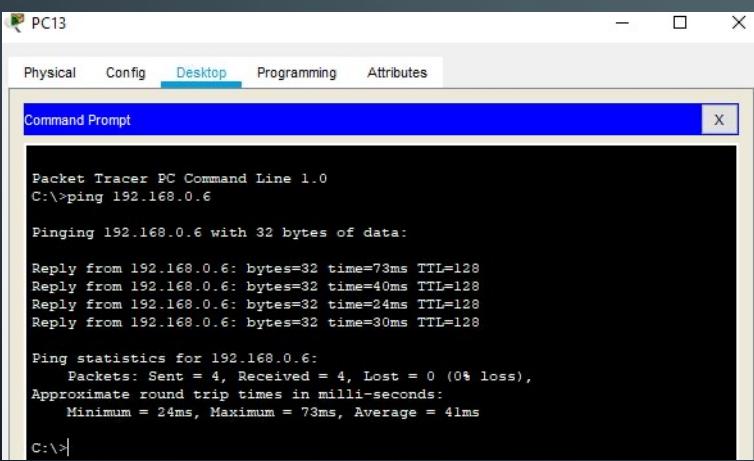
Pc15: 192.168.0.5

Pc14: 192.168.0.6



PING TEST

- Pc13 to Pc14



```
PC13
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.6

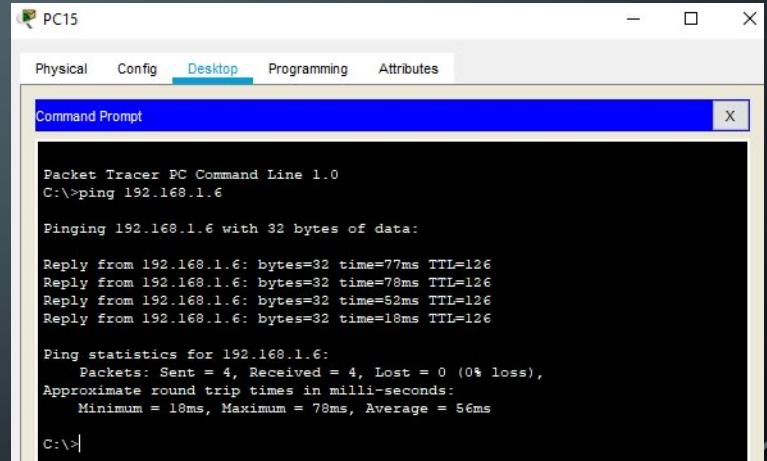
Pinging 192.168.0.6 with 32 bytes of data:

Reply from 192.168.0.6: bytes=32 time=73ms TTL=128
Reply from 192.168.0.6: bytes=32 time=40ms TTL=128
Reply from 192.168.0.6: bytes=32 time=24ms TTL=128
Reply from 192.168.0.6: bytes=32 time=30ms TTL=128

Ping statistics for 192.168.0.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 73ms, Average = 41ms
C:\>
```

- Department B to Department A

Pc15 to Laptop 4



```
PC15
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:

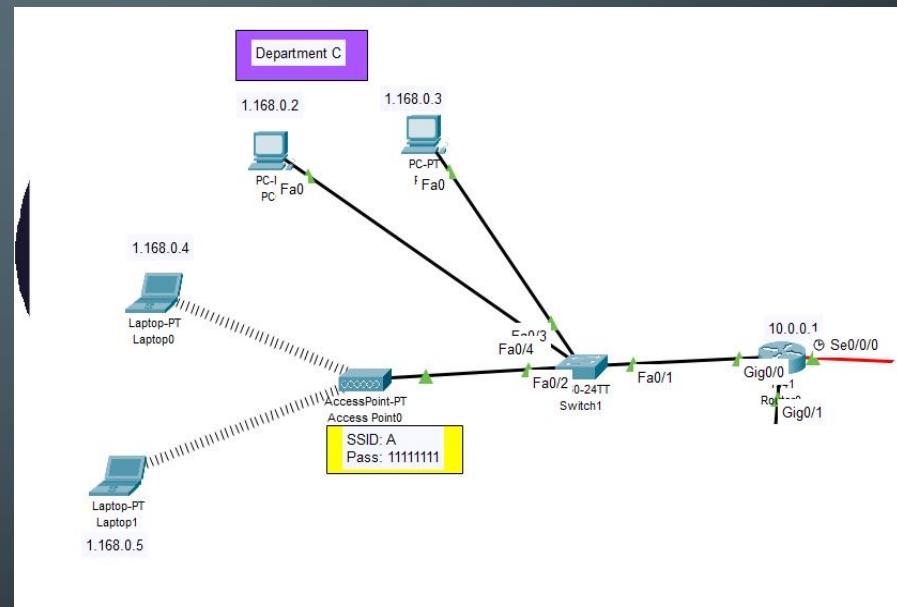
Reply from 192.168.1.6: bytes=32 time=77ms TTL=126
Reply from 192.168.1.6: bytes=32 time=78ms TTL=126
Reply from 192.168.1.6: bytes=32 time=52ms TTL=126
Reply from 192.168.1.6: bytes=32 time=18ms TTL=126

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 78ms, Average = 56ms
C:\>
```

PART – 3 DEPARTMENT C

- Devices;
- 1941 router – 2960 switch – 2
- wired connected PC – AP – 2
- wireless connected PC

IP Addresses;
Laptop1: 1.168.0.5
Laptop0: 1.168.0.4
Pc0: 1.168.0.2
Pc1: 1.168.0.3



PING TEST

- Department C to Department A
- Pc0 to Pc10

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Approximate round trip times in milli-seconds.
    Minimum = 2ms, Maximum = 21ms, Average = 6ms
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=15ms TTL=125
Reply from 192.168.1.3: bytes=32 time=2ms TTL=125
Reply from 192.168.1.3: bytes=32 time=2ms TTL=125
Reply from 192.168.1.3: bytes=32 time=3ms TTL=125

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 15ms, Average = 5ms
```

Department C to Department B
Laptop1 to Pc13

Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

```
Approximate round trip times in milli-seconds.
    Minimum = 11ms, Maximum = 28ms, Average = 22ms
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

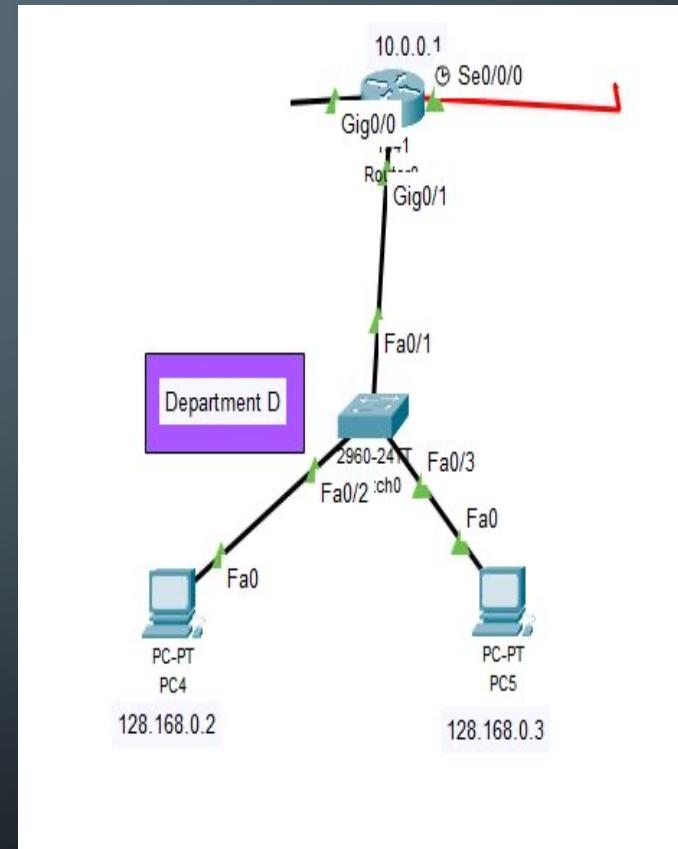
Reply from 192.168.0.2: bytes=32 time=15ms TTL=124
Reply from 192.168.0.2: bytes=32 time=20ms TTL=124
Reply from 192.168.0.2: bytes=32 time=31ms TTL=124
Reply from 192.168.0.2: bytes=32 time=9ms TTL=124

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 9ms, Maximum = 31ms, Average = 18ms
```

PART – 4 DEPARTMENT D

- Device;
- 1941 router – 2960 switch – 2 wired connected PC

IP Addresses;
Pc4: 128.168.0.2
Pc5: 128.168.0.3



PING TEST

- Department D to Department A
- Pc4 to Laptop 4

PC4

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:

Reply from 192.168.1.6: bytes=32 time=10ms TTL=125
Reply from 192.168.1.6: bytes=32 time=40ms TTL=125
Reply from 192.168.1.6: bytes=32 time=42ms TTL=125
Reply from 192.168.1.6: bytes=32 time=32ms TTL=125

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 42ms, Average = 31ms
```

Department D to Department C
Pc5 to Pcl

PC5

Physical Config Desktop Programming Attributes

Command Prompt

```
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 1.168.0.3

Pinging 1.168.0.3 with 32 bytes of data:

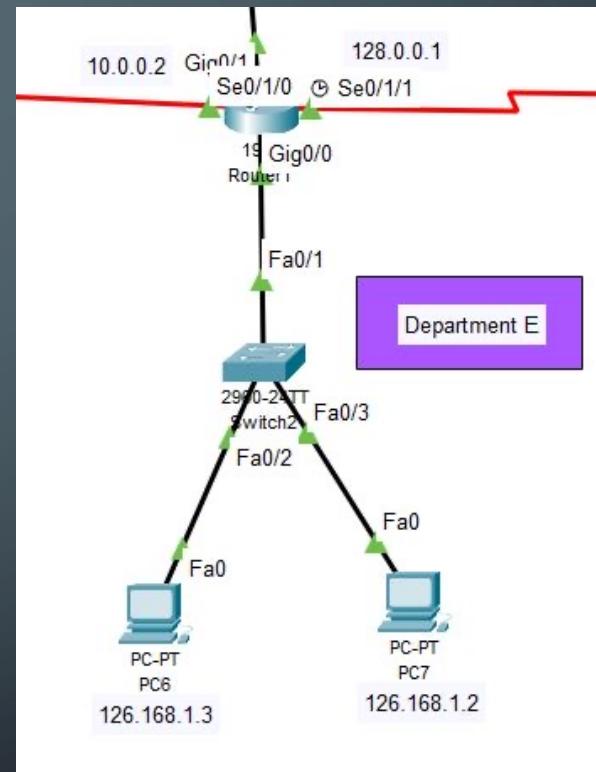
Reply from 1.168.0.3: bytes=32 time<1ms TTL=127
Reply from 1.168.0.3: bytes=32 time=9ms TTL=127
Reply from 1.168.0.3: bytes=32 time<1ms TTL=127
Reply from 1.168.0.3: bytes=32 time=1ms TTL=127

Ping statistics for 1.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 2ms
```

PART – 5 DEPARTMENT E

- Devices;
- 1941 router – 2960 switch
 - 2 wired connected PC.

IP Addresses;
Pc6: 126.168.1.3
Pc7: 126.168.1.2



PING TEST

- Department E to Server
- Pc6 to Server

PC6

Physical Config Desktop Programming Attributes

Command Prompt

```
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\>ping 172.16.10.2

Pinging 172.16.10.2 with 32 bytes of data:

Reply from 172.16.10.2: bytes=32 time=2ms TTL=126
Reply from 172.16.10.2: bytes=32 time=2ms TTL=126
Reply from 172.16.10.2: bytes=32 time=2ms TTL=126
Reply from 172.16.10.2: bytes=32 time=14ms TTL=126

Ping statistics for 172.16.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 14ms, Average = 5ms
```

- Department E to Department C
- Pc7 to Laptop0

PC7

Physical Config Desktop Programming Attributes

Command Prompt

```
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 38ms, Average = 14ms

C:\>ping 1.168.0.4

Pinging 1.168.0.4 with 32 bytes of data:

Reply from 1.168.0.4: bytes=32 time=29ms TTL=126
Reply from 1.168.0.4: bytes=32 time=3ms TTL=126
Reply from 1.168.0.4: bytes=32 time=30ms TTL=126
Reply from 1.168.0.4: bytes=32 time=25ms TTL=126

Ping statistics for 1.168.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 30ms, Average = 21ms
```