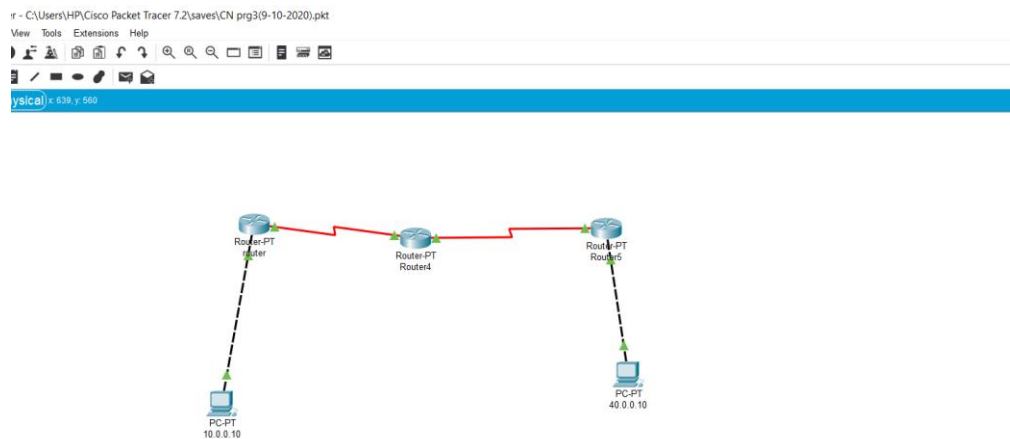


Lab program 3:

Configuring IP address to routers in packet tracer .Explore the following messages: destination unreachable, request timed out, reply.

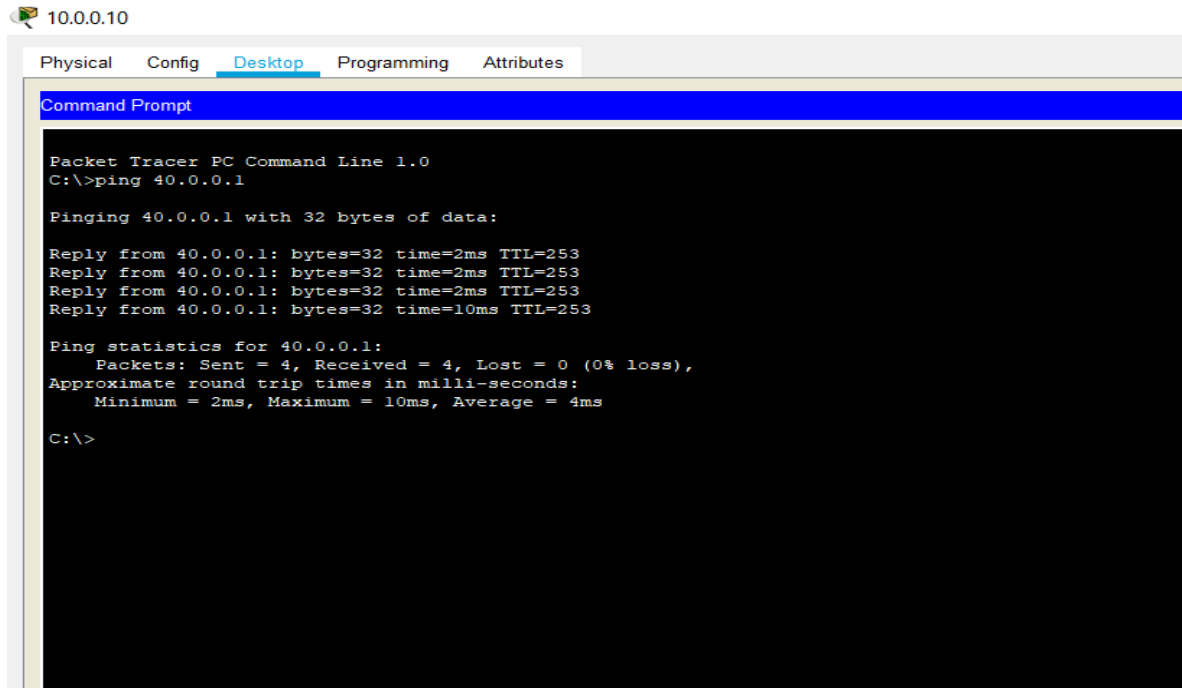
Procedure:

- 1) Construct topology using the available tools in packet tracer.
- 2) Give IP address to all the pc's connected.
- 3) Configure the router to all interfaces.
- 4) Ping to the destination.



It is the topology with 2 systems and 3 routers .

PC1 is directly connected to the router 1.



10.0.0.10

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=2ms TTL=253
Reply from 40.0.0.1: bytes=32 time=2ms TTL=253
Reply from 40.0.0.1: bytes=32 time=2ms TTL=253
Reply from 40.0.0.1: bytes=32 time=10ms TTL=253

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 10ms, Average = 4ms

C:\>
```

Observations:

- 1)Statically connecting the router's to all interfaces.
- 2)Destination host unreachable error can be resolved by giving the static connection among the routers.

Command Prompt

```
Ping statistics for 30.0.0.1:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 40.0.0.10
```

```
Pinging 40.0.0.10 with 32 bytes of data:
```

```
Reply from 10.0.0.1: Destination host unreachable.  
Reply from 10.0.0.1: Destination host unreachable.  
Reply from 10.0.0.1: Destination host unreachable.  
Reply from 10.0.0.1: Destination host unreachable.
```

```
Ping statistics for 40.0.0.10:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 40.0.0.11
```

```
Pinging 40.0.0.11 with 32 bytes of data:
```

```
Reply from 10.0.0.1: Destination host unreachable.  
Request timed out.  
Reply from 10.0.0.1: Destination host unreachable.  
Reply from 10.0.0.1: Destination host unreachable.
```

```
Ping statistics for 40.0.0.11:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>
```

```
C:\>ping 40.0.0.10
```

```
Pinging 40.0.0.10 with 32 bytes of data:
```

```
Request timed out.  
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
```