

PRACTICAL-4

AIM: To create Local Area Network

QUESTION 1:

Jack wanted to setup a network for his office. The devices in the network must be capable of communicating with each other. So first, he need to prepare a plan to implement the same. Guide Jack with the plan as well as with the setup of the network.

Steps:

Step 1: connect devices to switch hub or router through RJ 45 Ethernet cable.



Step 2: After setting up network fire a ping command to check the connectivity if your devices

```
Microsoft Windows [Version 10.0.18362.535]
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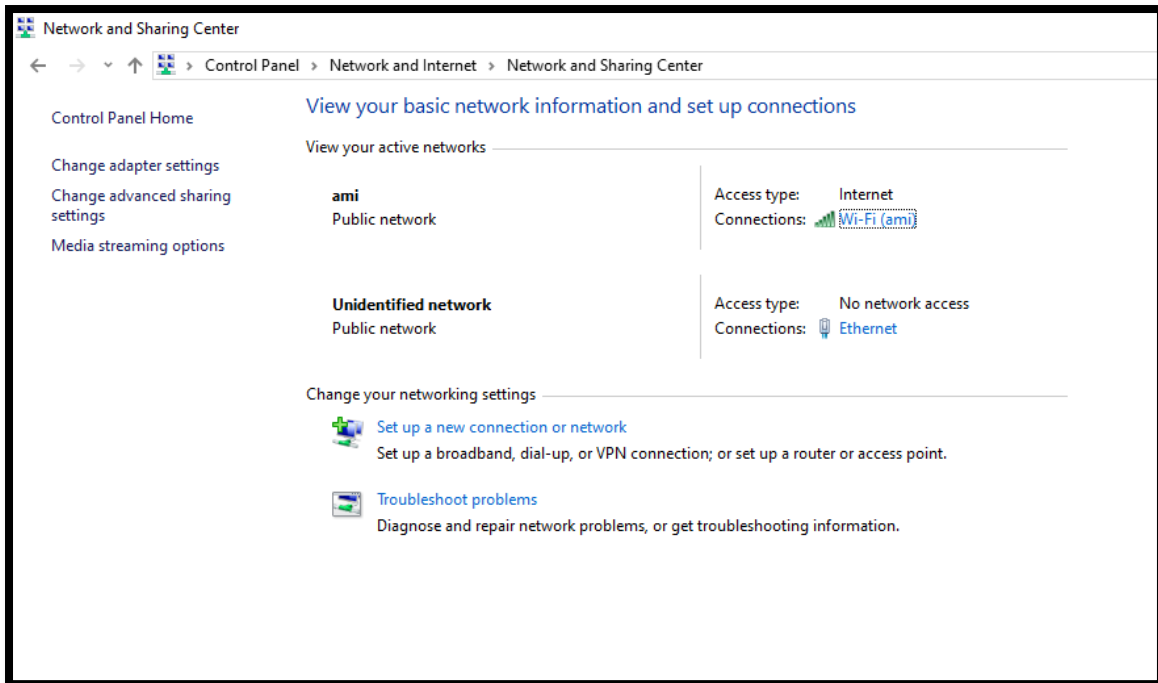
C:\Users\admin>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Request timed out.
Reply from 8.8.8.8: bytes=32 time=168ms TTL=53
Reply from 8.8.8.8: bytes=32 time=182ms TTL=53
Reply from 8.8.8.8: bytes=32 time=192ms TTL=53

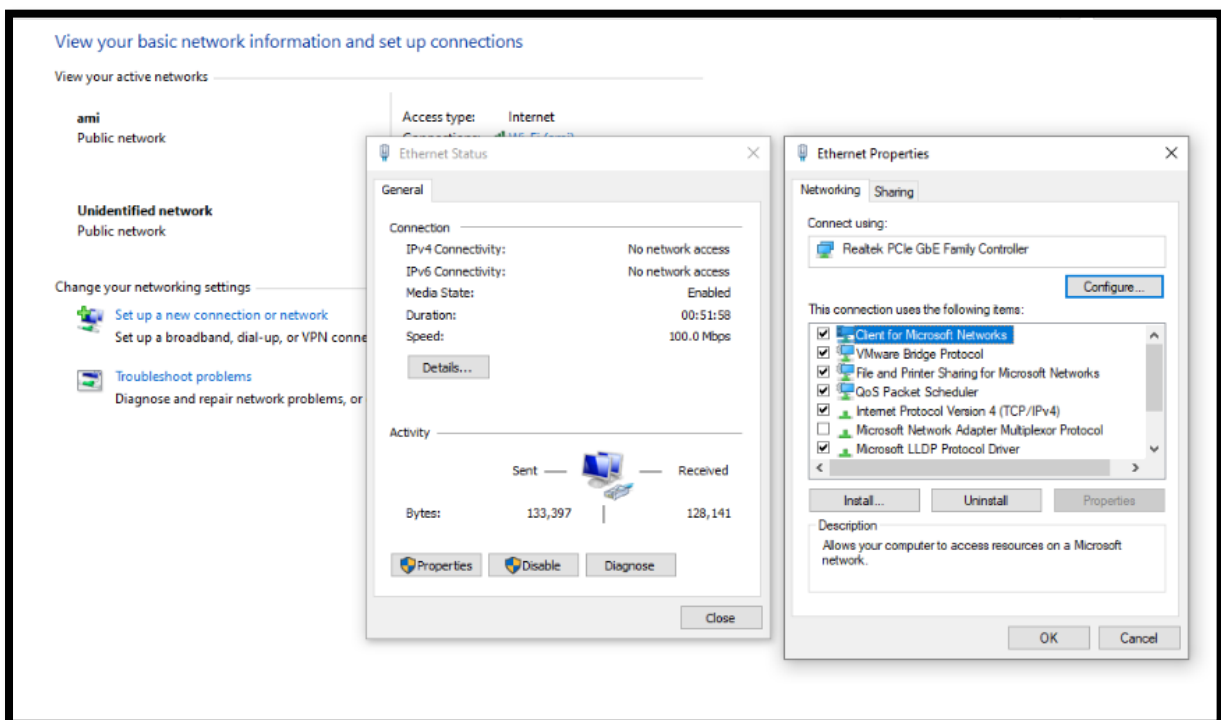
Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 168ms, Maximum = 192ms, Average = 180ms

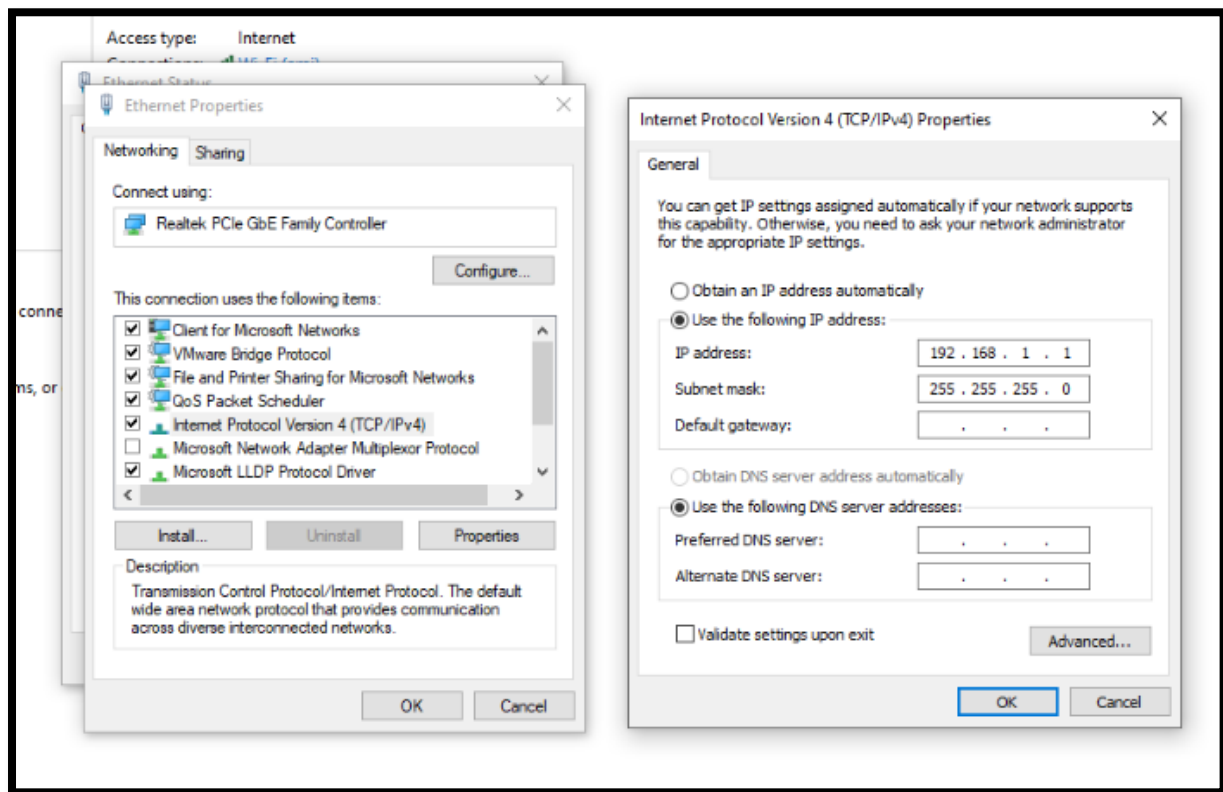
C:\Users\admin>
```

Step 3: then check that you are also reachable to connected device also go to the control panel and change settings (turn of defenders)



Step 4: now go to network settings and change ipv4 /TCP and give private ip to the network:





Step 5: here I have taken 192.168.1.1 ip for my device and another ip 192.168.1.2 for another device. That's how jack needs to build the network but before sharing file get assure that whether you are connected to another device fire ping command and check

```
Microsoft Windows [Version 10.0.18362.535]
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C:\Users\admin>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\admin>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=2ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\Users\admin>
```

QUESTION 2:

The head office of Mango organization has only 2 devices and Jack only wanted to connect both the device through each other, so that they can share the document which each other while working on the same project. Guide Jack to do the same.

Step 1: connect devices to switch hub or router through RJ 45 Ethernet cable.



Step 2: After setting up network fire ping command to check the connectivity of your devices

```
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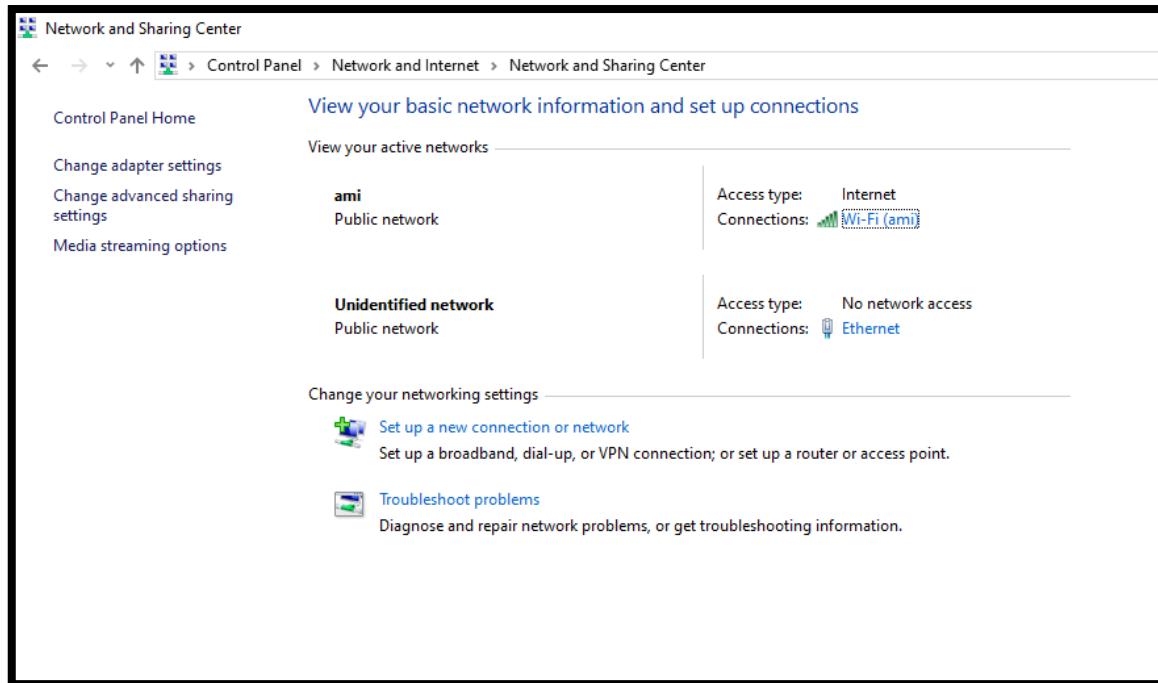
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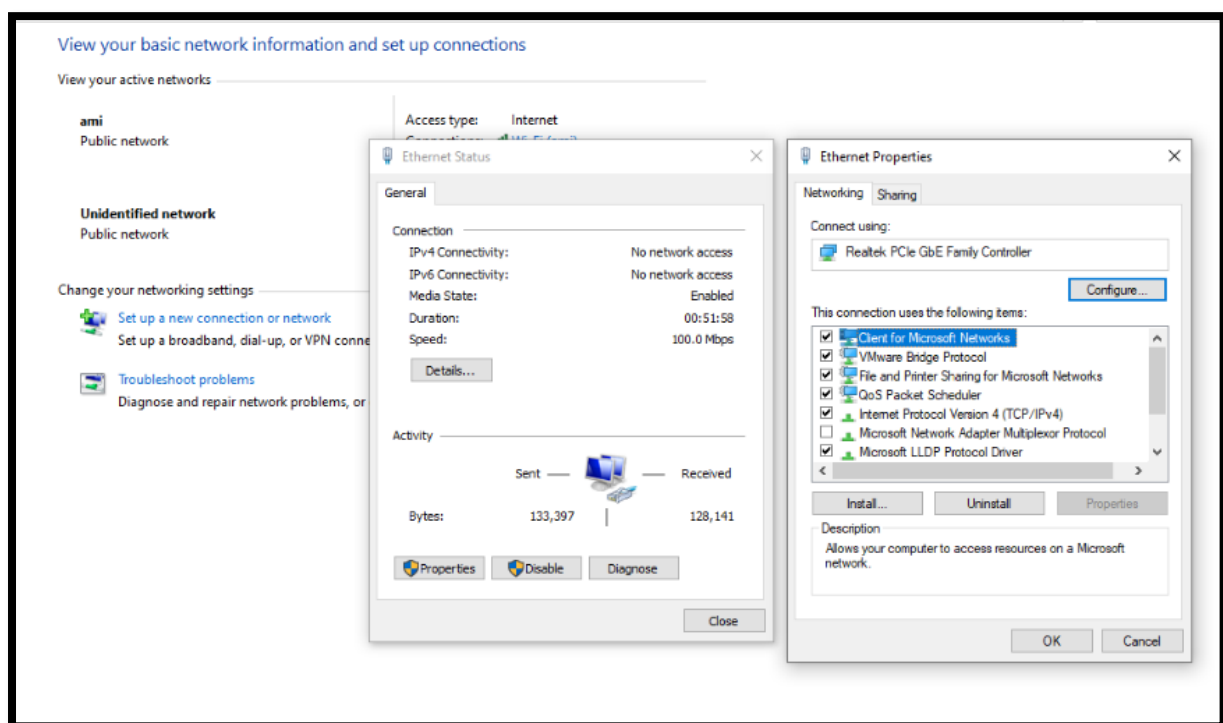
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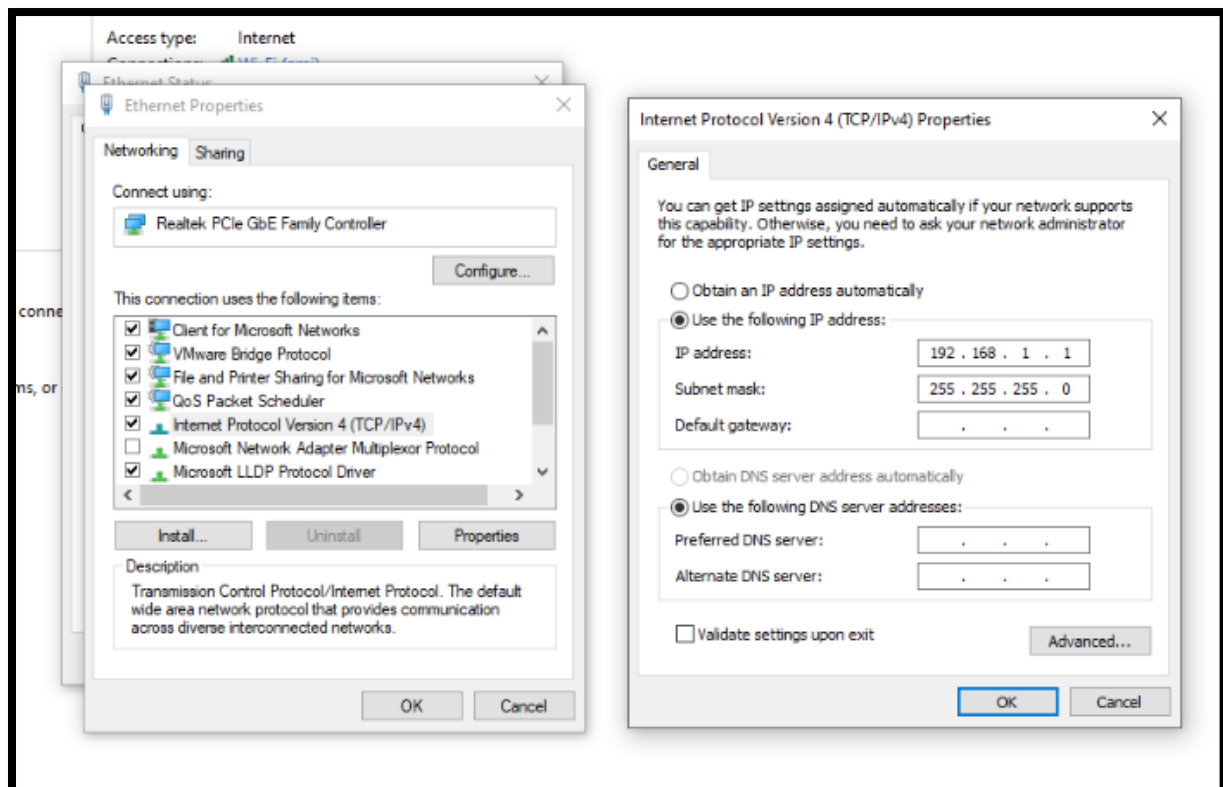
C:\Users\admin>
```

Step 3: then check that you are also reachable to connected device also go to the control panel and change settings (turn of defenders)



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Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

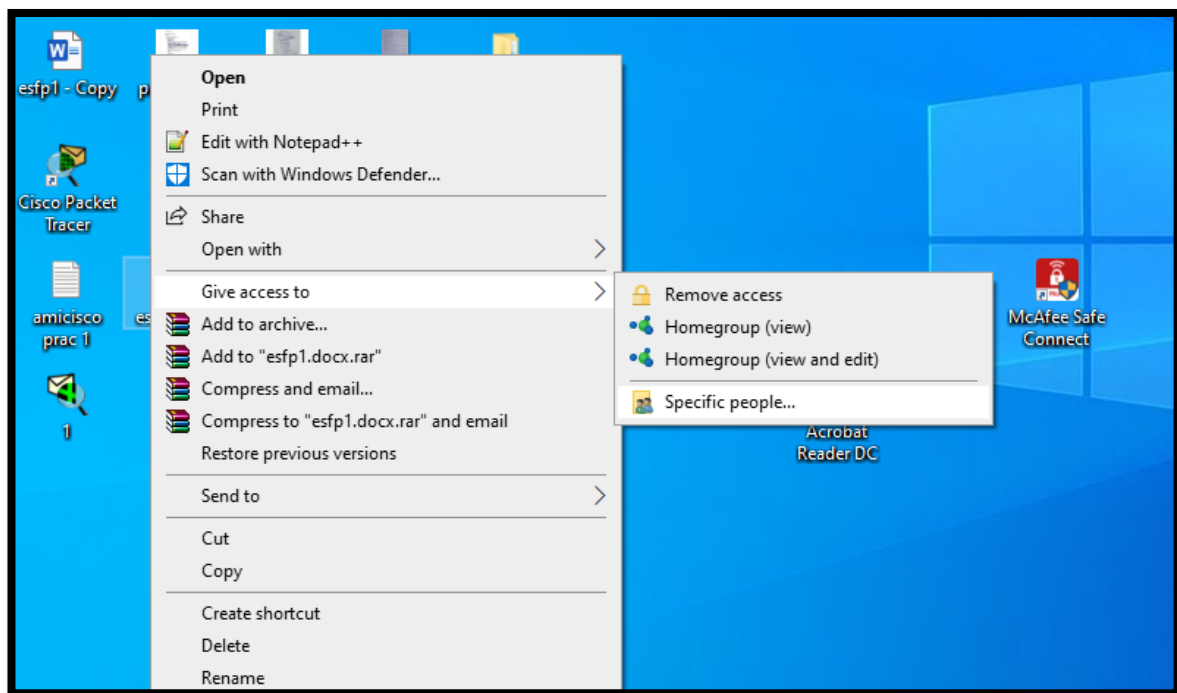
C:\Users\admin>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=2ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

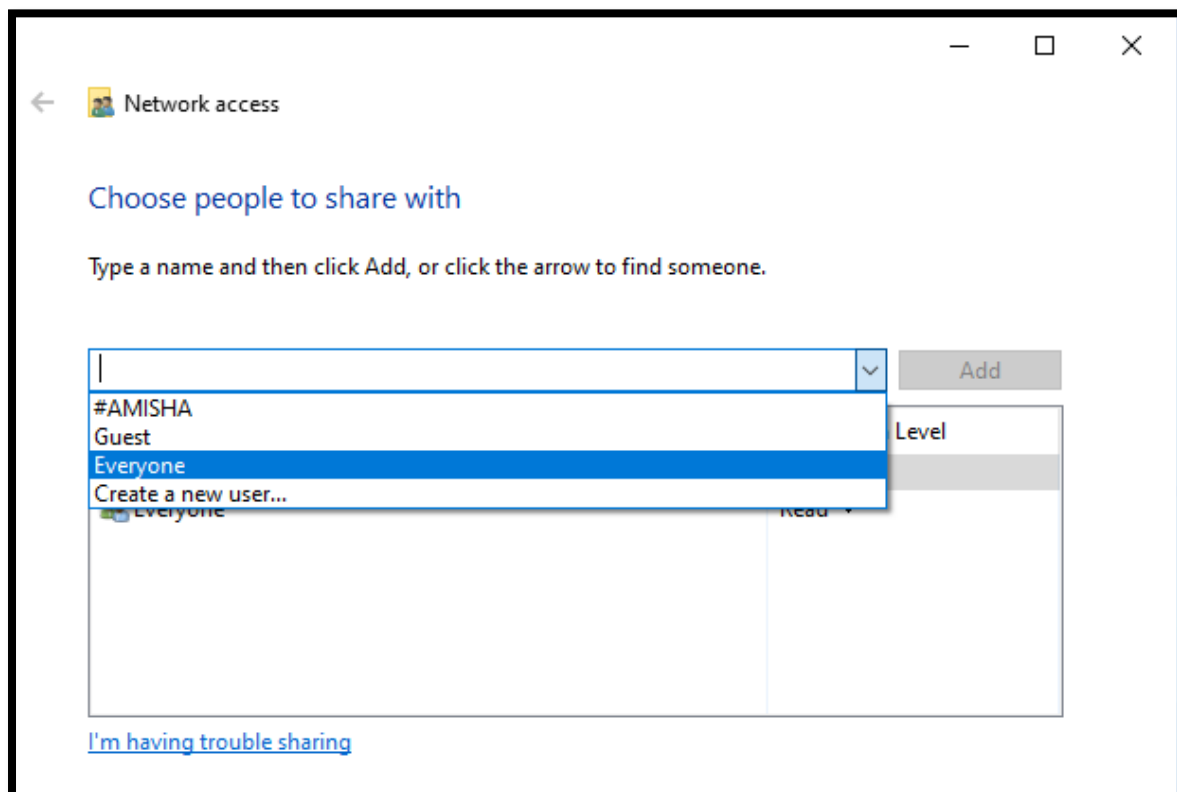
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\Users\admin>
```

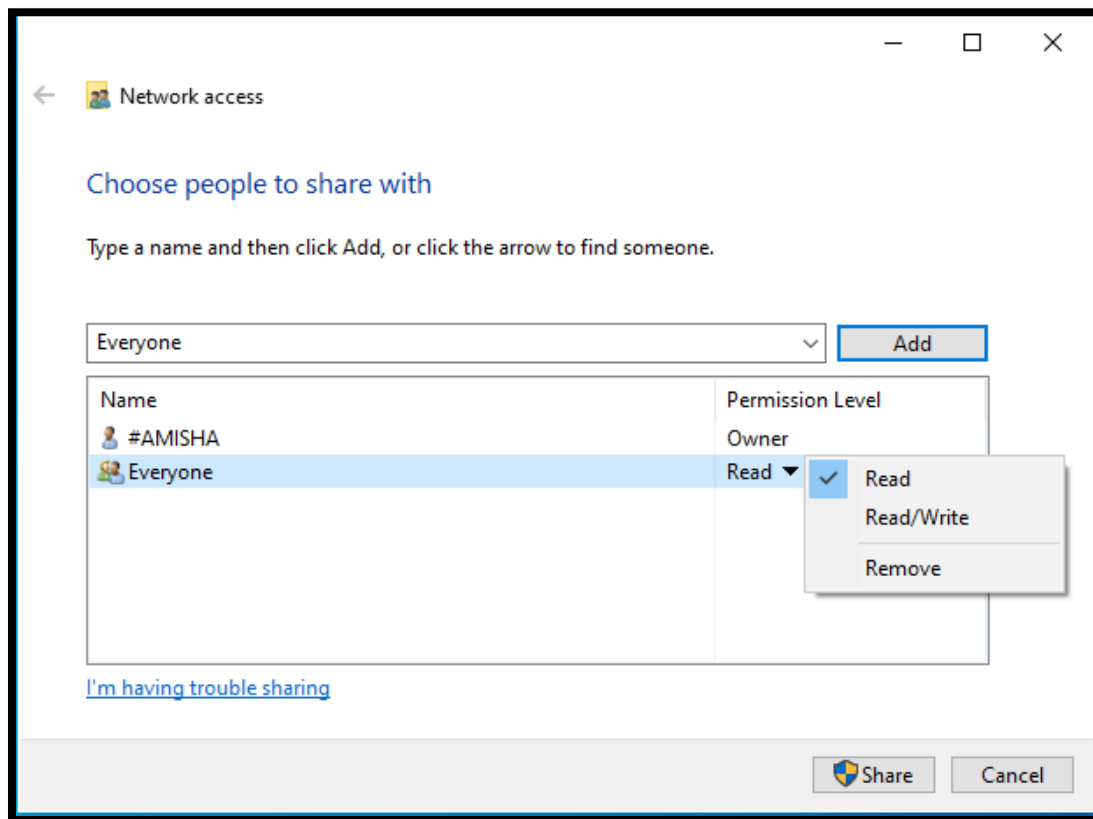
Step 6: now for sharing data go to Desktop and follow this select any particular file and right click on it.



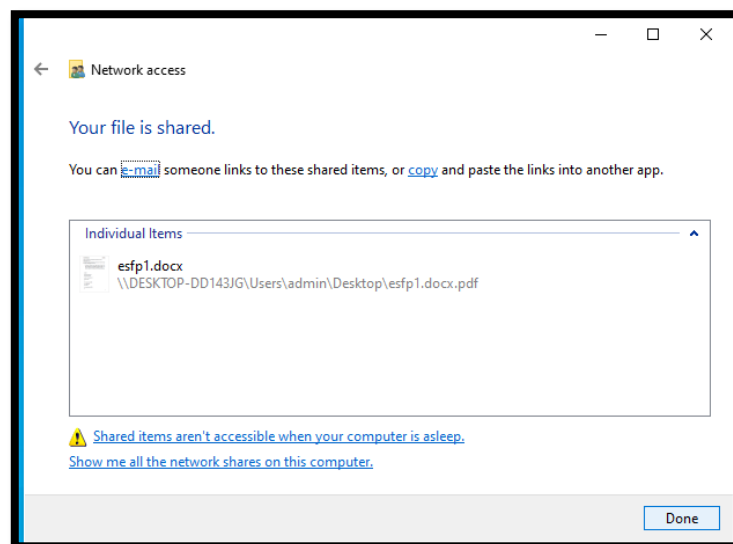
Step 7: now give access to everyone and share data



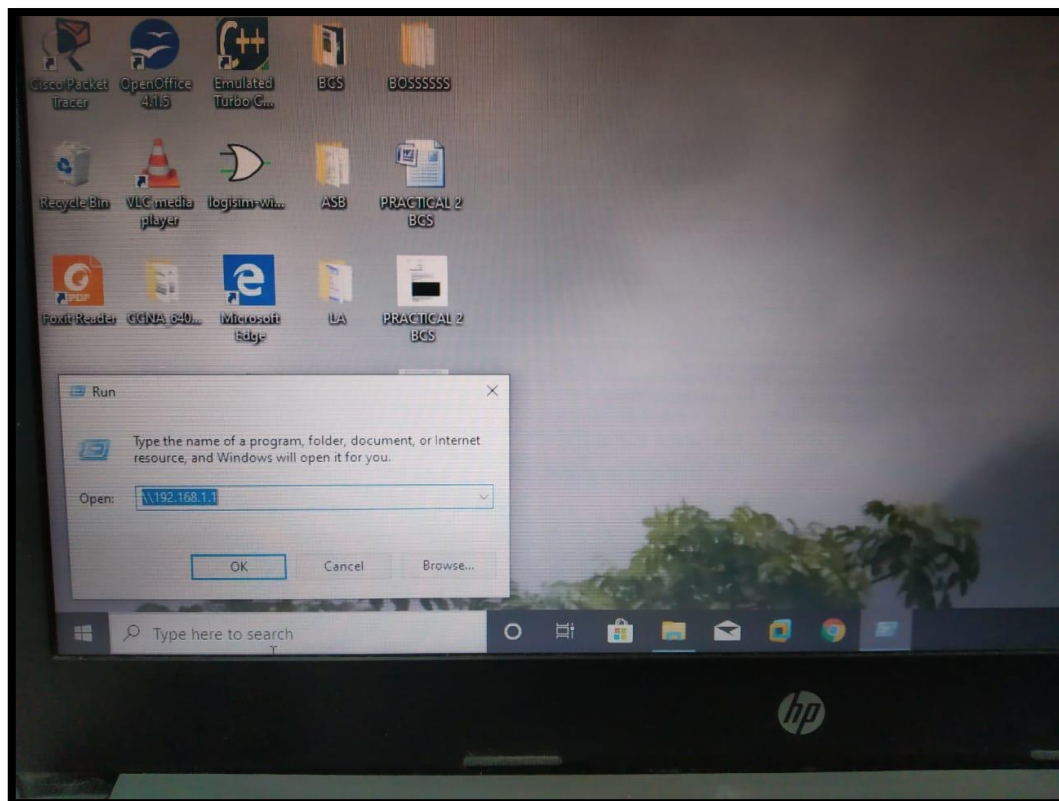
Step 8: you can give permission read write or both at times of sharing



Step 9: finally, after sending file it will show done



Now check it in another device simply switch on to another device and go to run and type the ip address of device from u want to have data



So finally, u can see the file from 1 device to another device

