

**Batch:A2**

**Roll Number: 16010421063**

**Experiment Number:2**

**Name:Arya Nair**

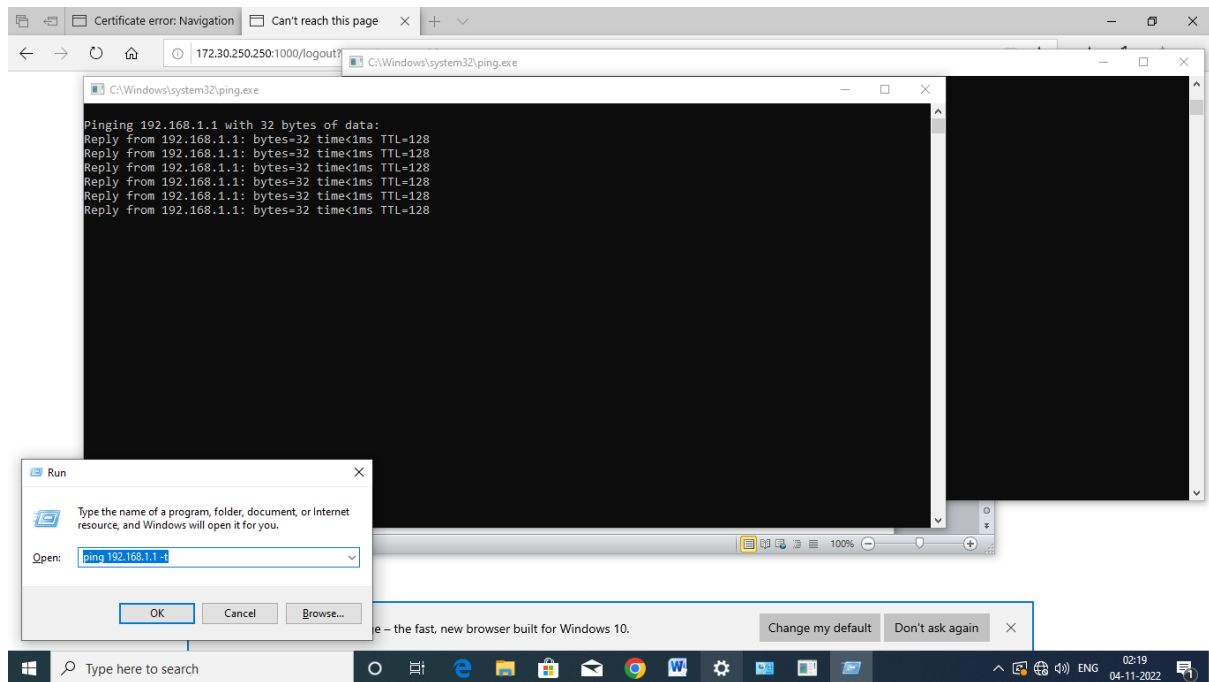
**Title of the Experiment:Fabrication of LAN cables in Computer Networks**

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**Program:**

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**Output:**



The screenshot displays a Windows 10 desktop environment. In the background, a web browser window is open with the address bar showing '172.30.250.250:1000/logout?'. Overlaid on this is a black command prompt window titled 'C:\Windows\system32\ping.exe'. The command prompt shows the output of a ping command to 192.168.1.1, indicating successful connectivity with 32 bytes of data, a time of less than 1ms, and a TTL of 128. In the foreground, a 'Run' dialog box is open, with the text 'ping 192.168.1.1' entered into the 'Open:' field. The Windows taskbar at the bottom shows the Start button, a search bar, and several pinned application icons including Edge, File Explorer, Mail, Chrome, Word, and Settings. The system tray on the right shows the date and time as 04-11-2022, 02:19.

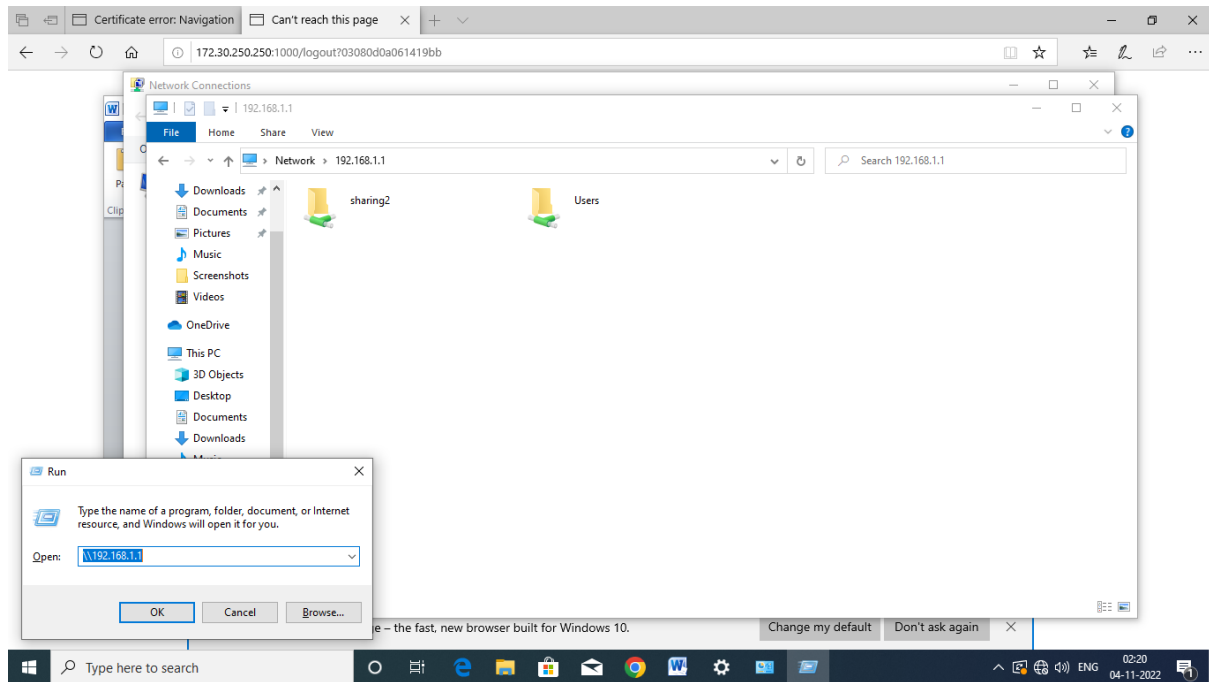
```
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply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

Run

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open:

OK Cancel Browse...



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### Post Lab Question- Answers (If Any):

1. The slowest transmission speeds are those of

- a. Twisted-pair wire
- b. Coaxial cable
- c. Fibre-optic cable
- d. Microwaves

**Answer: Twisted Pair wire**

2. Compare coaxial cable and optical fibre cable.

Sr. No.	Key	Optical Fibre	Coaxial Cable
1	Transmission Type	Optical Fibre transmits data/signals in the form of light.	The coaxial cable transmits data/signals in the form of electrical signals.
2	Material	Optical fibre is made using plastic and glass.	Coaxial cable is prepared using plastic and copper wires.
3	Efficiency	Optical fibre is highly efficient and signal loss is negligible.	Coaxial cable is less efficient.
4	Cost	Optical fibre is costly and its installation is quite expensive.	Coaxial cable is cheap and its installation is less expensive.
5	Weight	Optical fibre is quite light in weight.	Coaxial cable is very heavy as compared to an optical fibre.
6	Bandwidth	Optical fibre bandwidth is less than coaxial cable.	Coaxial cable provides high bandwidth.
7	Diameter	Optical fibre is having a smaller diameter.	Coaxial cable diameter is bigger than that of optical fibre.
8	Installation	The installation of Optical fibre is complex.	The installation of Coaxial cable is comparatively easy.

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**CO1: Understand the data communication systems and networking topologies and network devices.**

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**Conclusion: We understood and made a straight Lan cable and tested the connection between two computers.**

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