

Batch:A2

Roll Number: 16010421063

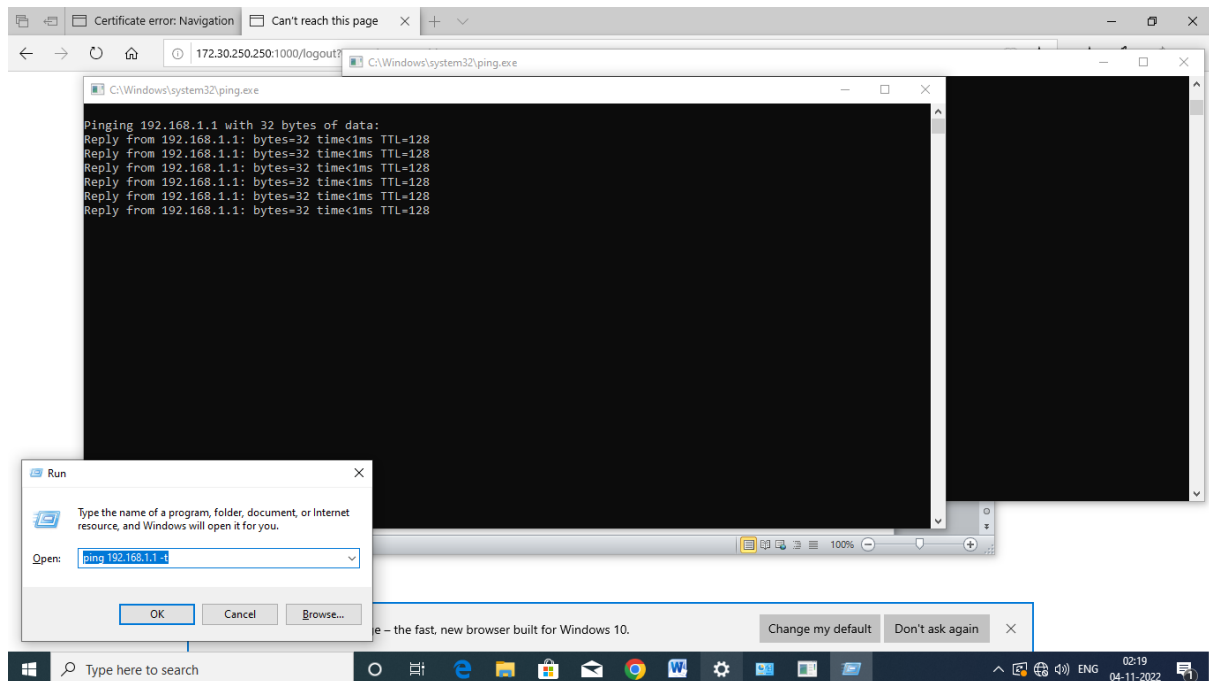
Experiment Number:2

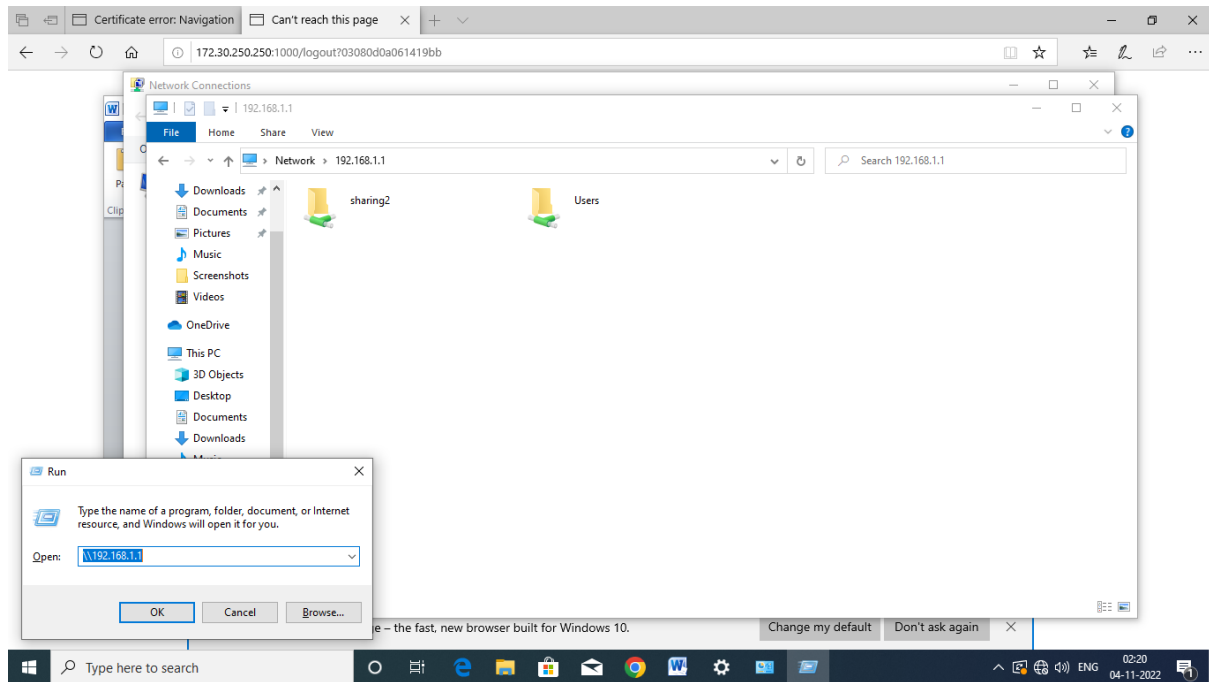
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Title of the Experiment:Fabrication of LAN cables in Computer Networks

Program:

Output:





Post Lab Question- Answers (If Any):

1. The slowest transmission speeds are those of

- Twisted-pair wire
- Coaxial cable
- Fibre-optic cable
- 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. |

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

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