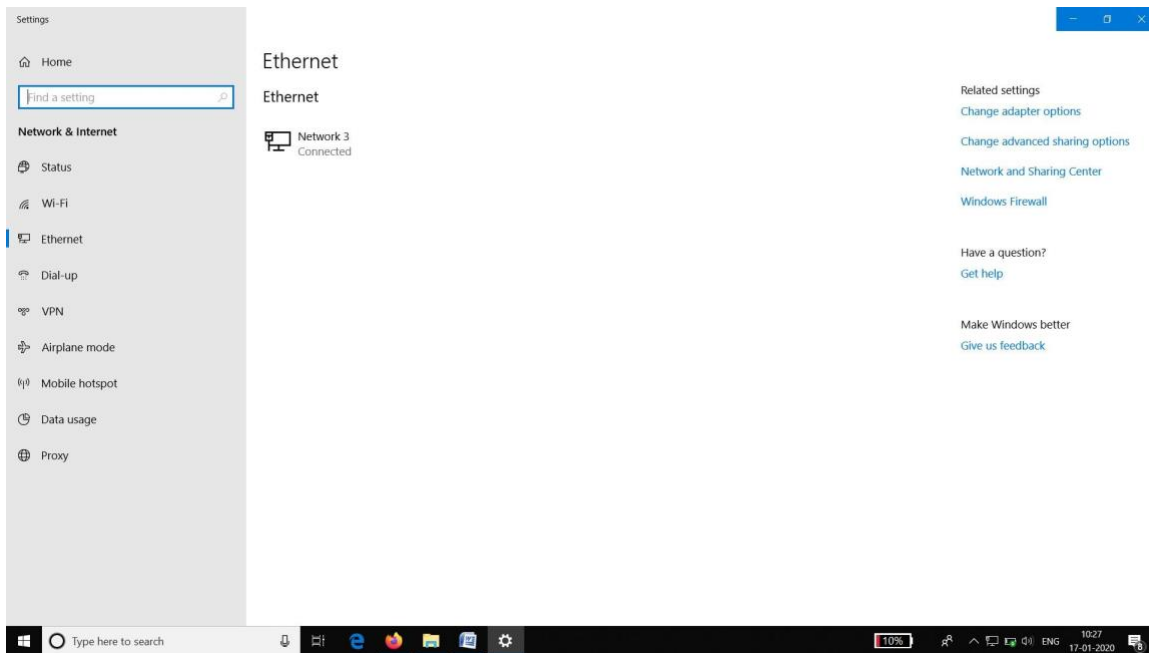


Computer Networks Lab 2

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The Result of Ethernet connection after connection:



The most common form of network cable is called “**unshielded twisted pair**” (**UTP**). This cable format is used for the **Ethernet** standards.

The distinction between a **straight through**, **crossover**, cable comes down to the way that the connectors on each end are wired. A **UTP cable contains eight wires**. Each individual wire is covered in a colored plastic coating and the entire bundle is encased in an outer shell.

In the twisted pair configuration, the eight wires within the cable are split up into four pairs. The two wires in a pair are twisted around each other. **This treatment protects both wires from interference**. The pairing is easy to spot because one of the two is encased in a coating of solid color while the other is white with a spiral stripe in the pair’s color. This pair’s colors are:

- Pin 1: Orange stripe—o
- Pin 2: Orange solid—O
- Pin 3: Green stripe—g
- Pin 4: Blue solid—B
- Pin 5: Blue stripe—b
- Pin 6: Green solid—G
- Pin 7: Brown stripe—br

- Pin 8: Brown solid—Br

Straight through (here numbers are different colours)

ST....

Device 1----o O. g. B. b G. br Br

Device 2—same as device 1.

1-----1

2-----2

3-----3

6-----6

Cross over (here numbers are different colours)

g G o. B. b. O. br. Br

1-----3

2-----6

3-----1

6-----2

