Grade 9

ICT

Computer Networks

Unit 05

What is Computer Network?

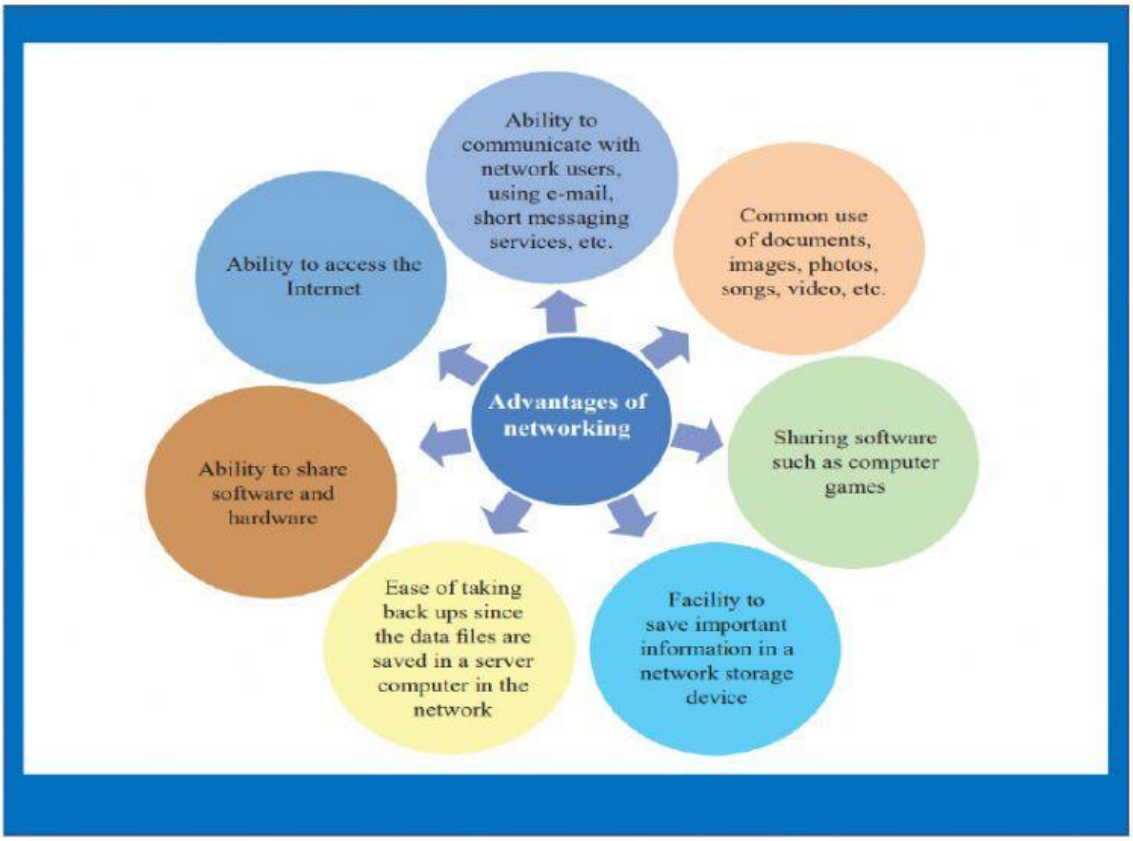
- A Computer Network is a group of two or more computer systems connected together for the purpose of sharing resources.





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Several advantages of computer networking



Types of Network Connection



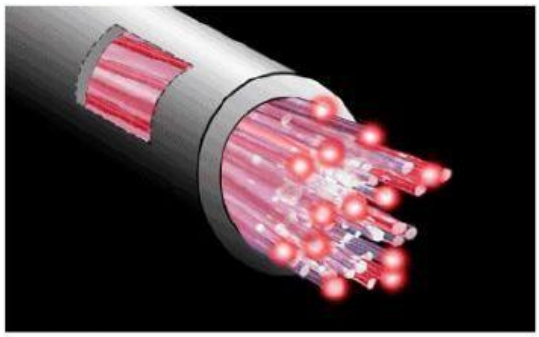
Wired



Wireless

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Cabling used in wired connection



Fiber Optic Cable



Twisted Pair Cable

Wireless Media



Infrared Waves



Bluetooth



Wi-fi Waves



Radio Waves

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Basic devices of a Network

- **Server**



server manages the software, the hardware, the files and communication in the network.

- **Switch**



Switches/Hubs connect various network devices together, like computers, printers. It allows communication between those devices. A guided/wired transmission media is used. One end is connected to port in the computer and the other end is connected to the port in the Switch / Hub.

- **Network Interface Card**



Network Interface Card connects a computer to a computer network.

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- **RJ45 Cables**



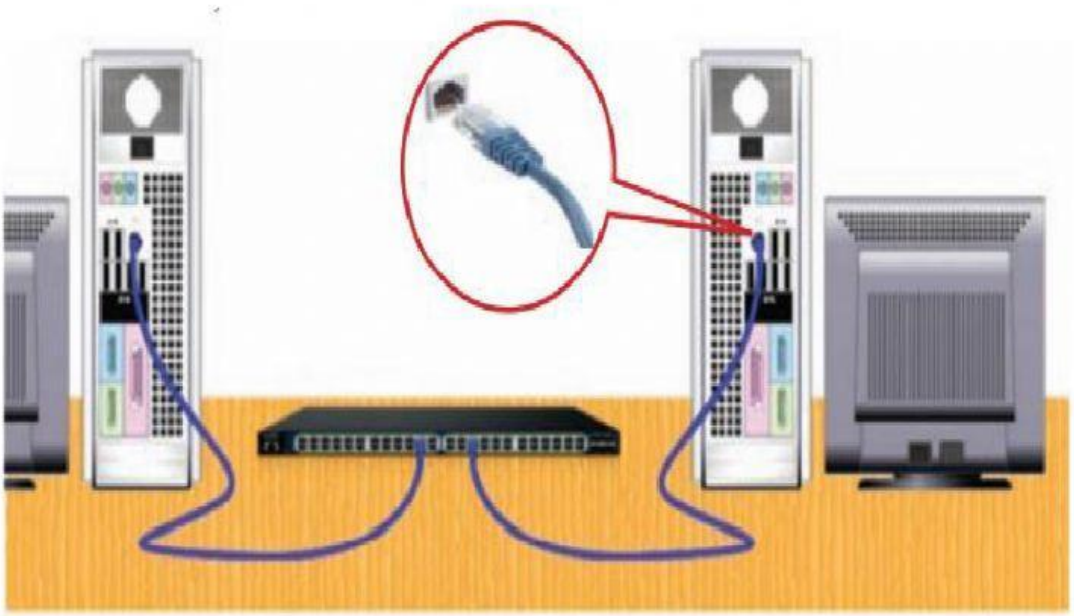
RJ45 connector cable

- **Router**

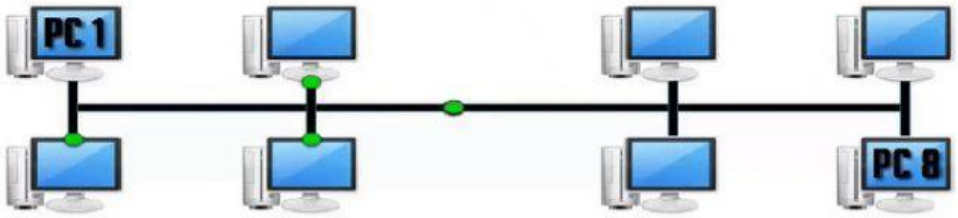


Router joins two or more computer networks together via either wired or wireless connections. This finds out the most suitable path for data transmission in network communication.

A network involving two computers



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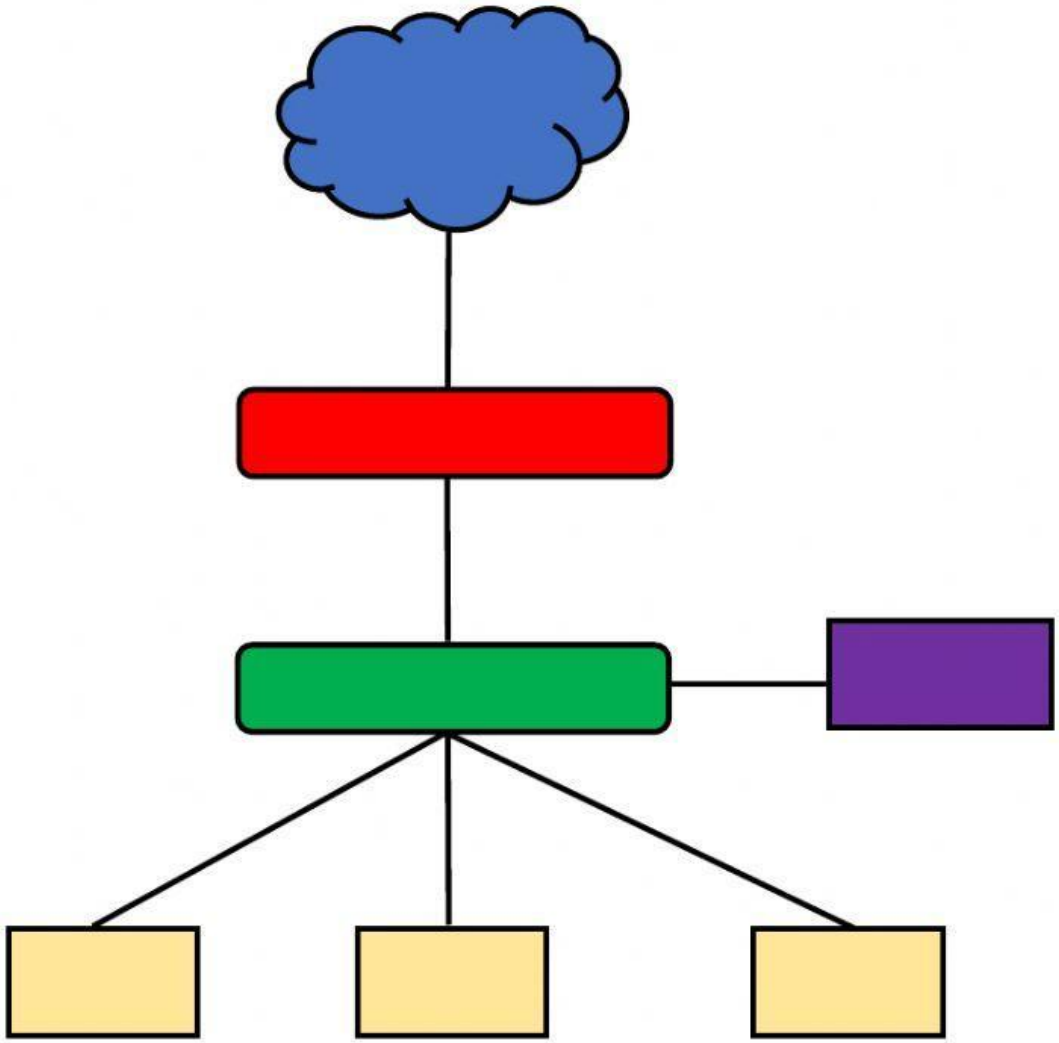
- Select the most suitable word from those in the box to fill the blanks in the statements 1 – 5 given below.

1. Connecting together two or more computers and peripherals is identified as a .....
2. There are two types of media to connect computers. They are: ..... and ..... connections.
3. Wireless computers use the ..... technology.
4. Wired computers use the ..... technology.
5. Is a benefit of networking computers .....

Bluetooth	Communication	Wired
Wireless	Computer Network	Fiber Optics

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- Identify the hardware to match the chart given.



- ✓ Router
- ✓ Computer 1
- ✓ Switch
- ✓ Computer 3
- ✓ Server
- ✓ Computer 2
- ✓ Internet

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