HUBS

A **Hub** is a networking device which receives a signal from the source, amplifies it and send it to multiple destinations or computers. If you ever some across subject 'Computer Networking' then you must hear this word. Sometimes, hubs are also called Ethernet Hub, Repeater Hub, Active Hub, and Network Hub. Basically, it is a networking device which is used multiple devices like Computers, Servers etc to each other and make them work as a single network segment. Hubs are used in 'Physical Layer' of OSI Model.

Types of Hub: On the basis of its working methods, the Hubs can be divided into three types, given as:

1. Active Hub
2. Passive Hub
3. Intelligent Hub

Active Hub: As its name suggests, Active Hub is a hub which can amplify or regenerate the information signal. This type of bus has an advantage as it also amplifies the incoming signal as well as forward it to multiple devices. This Bus is also known as Multiport Repeater. It can upgrade the properties if incoming signal before sending them to a destination.

Passive Hub: Passive Hub works like a simple Bridge. It is used for just creating a connection between various devices. It does not have the ability to amplify or regenerate any incoming signal. It receives a signal and then forwards it to multiple devices.

Intelligent Hub: This is the third and last type of Bus. It can perform tasks of both Active and Passive buses. Also, it can perform some other tasks like Bridging and routing. It increases the speed and effectiveness of total network thus makes the performance of the whole network fast and efficient.