What is difference between Public IP address and Private IP address?

Public IP Address:

➢ A public IP address is a globally unique address assigned to a device by an Internet Service Provider (ISP) or network administrator.

➢ It allows devices to communicate over the internet and be reachable from anywhere on the World Wide Web.

➢ Public IP addresses are used for routing data across the internet and serve as an identifier for devices over the internet.

➢ Websites, servers, and other internet-connected devices typically have public IP addresses.

Private IP Address:

➢ A private IP address is used within a local network to identify devices such as computers, smartphones, printers, and more.

➢ It is not globally unique and can be duplicated across different local networks.

➢ Private IP addresses are used for communication within a closed network (intranet) and are not directly reachable from the internet.

➢ Devices within a home, office, or corporate network often have private IP addresses.

➢ The use of private IP addresses helps conserve the limited pool of available public IP addresses.