Write a short summary on firewall and VPN

**Firewall**

A **firewall** is a security system that monitors and controls incoming and outgoing network traffic. It acts as a barrier between a trusted internal network and untrusted external networks (like the internet). Firewalls can be hardware-based, software-based, or a combination of both, and are used to block unauthorized access while allowing legitimate communication.

A **VPN (Virtual Private Network)** provides a secure connection over a public network by encrypting the data transmitted between the user and the internet. VPNs help protect user privacy, hide IP addresses, and enable secure remote access to private networks.

Together, firewalls and VPNs are key tools in maintaining network security and data privacy.