## **Firewall and VPN – Summary**

### **Firewall:**

A **firewall** is a security system that **monitors and controls incoming and outgoing network traffic**.  
 It acts like a **gatekeeper**, blocking harmful or unwanted connections and allowing safe ones.

* **Purpose**: To protect your device or network from viruses, hackers, and unauthorized access.
* **Types**: Hardware firewall, software firewall, and cloud-based firewall.

*Think of it as a security guard for your network.*

### **VPN (Virtual Private Network):**

A **VPN** creates a **secure, encrypted connection** between your device and the internet.  
 It hides your IP address and data from hackers, trackers, and even your ISP.

* **Purpose**: To keep your internet activity **private and secure**, especially on public Wi-Fi.
* **Use Cases**: Remote work, accessing blocked websites, securing sensitive data.