Software

Software is a collection of instructions, data, or programs used to operate computers and execute specific tasks. It is the non-tangible component of computers, enabling hardware to perform useful operations.

Types of Software
System Software

Definition: Manages and controls the hardware components and provides a platform for running application software.
Examples:
Operating Systems: Windows, macOS, Linux
Device Drivers: Software that allows hardware devices to communicate with the operating system
Utilities: Disk management tools, antivirus software

Application Software

Definition: Designed to help users perform specific tasks or applications.
Examples:
Productivity Software: Microsoft Office, Google Docs
Web Browsers: Chrome, Firefox, Safari
Media Players: VLC, Windows Media Player
Graphics Software: Adobe Photoshop, GIMP

Programming Software

Definition: Tools that developers use to create, debug, maintain, and support other programs and applications.
Examples:
Compilers: GCC, MSVC
Debuggers: GDB, Visual Studio Debugger
Integrated Development Environments (IDEs): Visual Studio, Eclipse, IntelliJ IDEA