## Darshan Nikam Date: 28/03/2024

System Software:

System software acts as the bridge between the hardware and application software.

It includes operating systems like Windows, macOS, Android, and iOS, which manage hardware resources, provide a user interface, and facilitate communication between hardware and software.

Operating systems are loaded into RAM when the device starts up, allowing them to interact with the computer's hardware.

They provide essential services such as memory management, process management, file management, and device management.

Utility Software:

Utility software is a subset of system software that performs specific tasks to maintain and optimize the computer's performance.

It runs continuously in the background, providing services like security and system optimization.

Security programs, such as antivirus software, protect against viruses and malware by scanning and removing threats.

Optimization tools, like disk cleanup and defragmentation programs, ensure efficient use of system resources and maintain system stability.

Utility software enhances the functionality of the operating system and improves user experience by addressing common maintenance and security concerns.

Application Software:

Application software encompasses all programs and apps that are not part of the operating system or utility software.

Examples include word processors, spreadsheets, web browsers, graphics software, and multimedia players.

Application software is used to perform specific tasks or functions, such as document editing, web browsing, content creation, and entertainment.

Users can add or remove applications on their computer using the operating system's installation and uninstallation features.

Application software relies on the operating system to manage hardware resources and provide essential services, such as file management, input/output operations, and network communication.

When an application interacts with the operating system, it utilizes system calls to request services and access hardware devices.