

Computer science

Software and application of software

- **System Software**
- **Application Software**

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❖ Software

- Software is a group of programs designed to perform a specific function.
- A program is a set of instructions that is written to solve a specific problem.
- There are two types of software:
 1. System Software
 2. Application Software

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1. System Software

- System software is a set of programs that control the operations of a computer, such as memory management, loading, and saving, etc.
- System software acts as a link between application programs and the computer.
- System software is generally prepared by computer manufacturers.

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- One of the examples of system software are Operating System (OS).
- **The system software has the following features:**
 - ✓ Close to system
 - ✓ Difficult to design
 - ✓ Smaller in size
 - ✓ Generally written in low-level language
 - ✓ Difficult to understand

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2. Application Software

- The purpose of application software products is to meet specific needs in specific environments.
- Application software can be used to describe any software that is prepared in the computer lab.
- Application software can be as a single program, such as Microsoft's Notepad, which is used for simple text editing and writing.

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- It could also be a group of programs, known as a software package, that work together to complete a task, such as a spreadsheet package.

❑ The application software has the following features:

- ✓ Close to user
- ✓ Bigger in size and requires large storage space
- ✓ Easy to design
- ✓ Generally written in high-level language
- ✓ Easy to understand

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❖ Types of application software

1. Word processing software:

- The main function of this software is to create documents.
- Word processing software includes programs such as Microsoft Word, Word Pad, Notepad, and various text editors.

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2. Spreadsheet software

- This program is used for maintaining records of sales data, grade sheets, financial statements, and budgets.
- Also, it enables users to perform simple or complex calculations on numbers given in rows and columns.
- The aim of this software is to organize numbers.
- One of the examples of spreadsheet software is Microsoft Excel.

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3. Presentation software

- This program is used to show information as a slide show.
- Three major purposes of presentation software are:
 - ✓ editing, which enables the addition and arrangement of text.
 - ✓ inserting images into the text.
 - ✓ executing slide shows.

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- The most useful example of this kind of application software is Microsoft PowerPoint.

4. Database software

- The main purpose of this software is to organize and manage data. The feature of this software is that users can change way data is stored and displayed.
- Database software include FoxPro, MS Access, and Paradox.

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5. Multimedia software

- Media players and real players are the examples of multimedia software.
- This software will allow the user to create audio and videos.
- The different forms of multimedia software are audio converters, players, burners, video encoders and decoders.