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Q: What is Software? Write down (02) two main types of Computer Software with examples, Express software relation in-between WAN and LAN

Or What is software? Describe different categories I types of software.

Ans: **Software:**

Computer software is not something you can touch physically. Software is a set of instructions given to a computer to perform specific operations. You need, both hardware and software for a computer system to work.

Types of Software:

Software can be classified into two main categories/types: -

1. System Software.
2. Programming software.
3. Application Software.

1. System Software:

System software serves as a base for application software, System software includes device drivers, operating systems (OS), compilers, disk formatters, text editors and utilities helping the computer to operate more efficiently. It is also responsible for managing hardware components and providing basic non-task-specific-functions. The system software is usually written in C programming language.

Most Popular system software:

Operating system is the main and the most popular

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type of system software.

Definition of System Software:

A program or set of programs that is especially designed to control different operations of computer system is called system software. It controls the working of different components of the computer. The system software also enables the other application programs to execute properly.

Examples of system software:

Operating systems, utility programs, and device drivers.

2. Programming software:

Programming software is a set of tools to aid developers in writing programs. The various tools available are compilers, linkers, debuggers, interpreters and text editors.

3. Application Software:

Application software is intended to perform certain tasks.

Examples of application software include:

office suites, gaming applications, database systems and educational software. Application software can be a single program or a collection of small programs.

This type of software is what consumers most typically think of as "software."

Method to get Software and installation:

Software's can be downloaded to a computer over the

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Internet. Once downloaded, setup files are run to start the installation process on your computer. Software can also be purchased at a retail computer store or online and come in a box containing all the disks (floppy diskette, CD, DVD, Blu-ray Disc or USB drive).

Definition of Application Software:

A program or set of programs that are especially designed to solve the specific problems of users, are called application software. It is also known as software package.

Types of application software:

There are different kinds of application software such as commercial software, scientific software, financial packages, games, multimedia software etc.

Categories of Application Software

The application software is divided into two

- i) Custom built software.
- ii) Packaged software.

i. Custom built Software

The software that is developed for a specific customer or organization is called custom built software. It is also known as customized software.

For example:

Software developed to maintain the records of students for a specific college.

ii. Packaged Software:

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The software that is developed for sale to the general public is called packaged software. Packaged software is used to solve some common problem of many people or users.

Examples of packaged software:

1. Word processor such as MS-Word.
2. Spreadsheet such as MS-Excel.
3. Database software such as MS-Access.
4. Graphics software such as Adobe Photoshop and CorelDraw.
5. Communication software such as Google Chrome and firefox.

Software relation in-between WAN and LAN

LAN:

A local area network (LAN) links computers in close proximity, connecting them by cables or by wireless technology.

WAN:

A wide area network (WAN) covers a relatively large geographical area and connects computers by telephone lines, wireless technology.

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Q. What are the differences between hardware and software?

Ans. The main differences between hardware and software:

Hardware:

1. Hardware is the physical parts of the computer.
2. You can touch, see and feel hardware.
3. Hardware is constructed using physical materials of components.
4. Computer is hardware, which operates under the control of software.
5. If hardware is damaged, it is replaced with new one.
6. Hardware is not affected by computer viruses.
7. Hardware cannot be transferred from one place to another through computer network.
8. User cannot make new duplicate copies of the hardware.

Software:

1. Software is a set of instructions used to solve a specific problem.
2. You cannot touch and feel software.
3. Software is developed by writing instructions by following the rules of programming language.
4. The operations of computer are controlled through software.

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5. If software is damaged or corrupted its backup copy can be reinstalled.
6. Software can get affected by computer viruses.
7. Software can be transferred from one place to another through computer network.
8. User can make many new duplicate copies of the software.

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Q: Differentiate between operating system, utility and application programs/software/app?

Ans: Difference between operating system, Utility programs and application programs/software/app as following:

1. Working Principle:

Operating system is a program or set of programs that is especially designed to control the working of different components of the computer & different operations of computer system.

While **application software** is a computer based program that is designed to perform some tasks that are grouped together and helps people in completing their work at faster speeds.

2. Sources:

Operating system comes mostly installed on the device we purchase

while **application software** is mostly downloaded from the internet.

3. Size:

Operating system usually has biggest size ranging in GBs

while **application software** has smaller size ranging in MBs.

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4. Dependency:

Application software cannot work without an operating system

whereas the **operating system** can work without application software.

5. Requirement:

A computer only requires one **operating system** while **application software** is optional, and you can install as many as you require.

6. Example:

Microsoft Windows and Linux are well known examples of **Operating system**

While Google Chrome and MS office suite is well known examples of **application software**.

**(Google chrome is a web-browser and MS-Office suite is Microsoft bundle of software's such word, excel and PowerPoint).

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Q. Describe any three (03) most common type of Application Software

Or What is application software? Give name of three application software you use.

Or Write a detailed note on Application Software.

Ans: Application Software:

" A program or set of programs that are especially designed to solve the specific problems of users and helps user in completing their work at faster speeds ".

There are two types of application software:

1. Custom-built Software.
2. Packaged Software.

1. Custom-built Software:

"This is the software that is designed and developed for the demand of particular customer"

This type of software is designed to meet the exact requirements of a customer.

Example:

Banks Software, Departmental Software; NADRA Software etc.

2. Packaged Software:

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"This is the software that is designed or developed for sale to the general users or customers for their use"

Customers purchase this type of application software according to his/her needs.

Example:

Microsoft Word, Windows, Microsoft Office etc.

Commonly used application packages are:

1. Word Processing Packages
2. Spread Sheet
3. Database Management System
4. Electronic Communication
5. Drawing and Graphics
6. Enhanced Presentation

1. Word Processing Package:

Word processing software's are used to write letters and other text documents in computer. The computer program that provides these facilities in the computer is called word processing package.

Most widely used word processing package is MS Word.

2. Spread Sheet:

These packages. are used in business applications.

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Spreadsheet provides very efficient method of mathematic calculation on tabular. data (in the form of rows and columns). Spreadsheet can also be used to take decision based on data.

Most widely used spreadsheet program is MS Excel.

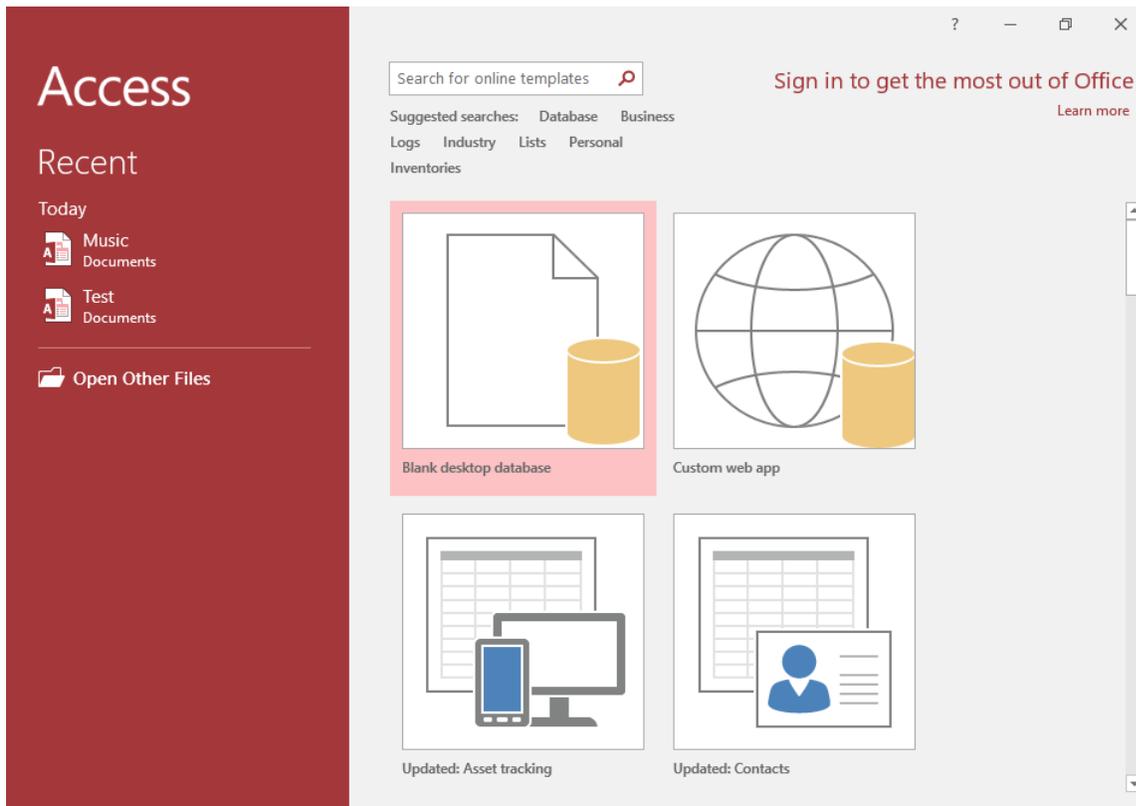
3. Database Management System:

A database is a collection of data stored in an organized way. These packages provide facilities for efficient storage and retrieval of data in files.

Most widely used Database Management System software's are.

- a. MS Access
- b. Oracle
- c. FoxPro etc.

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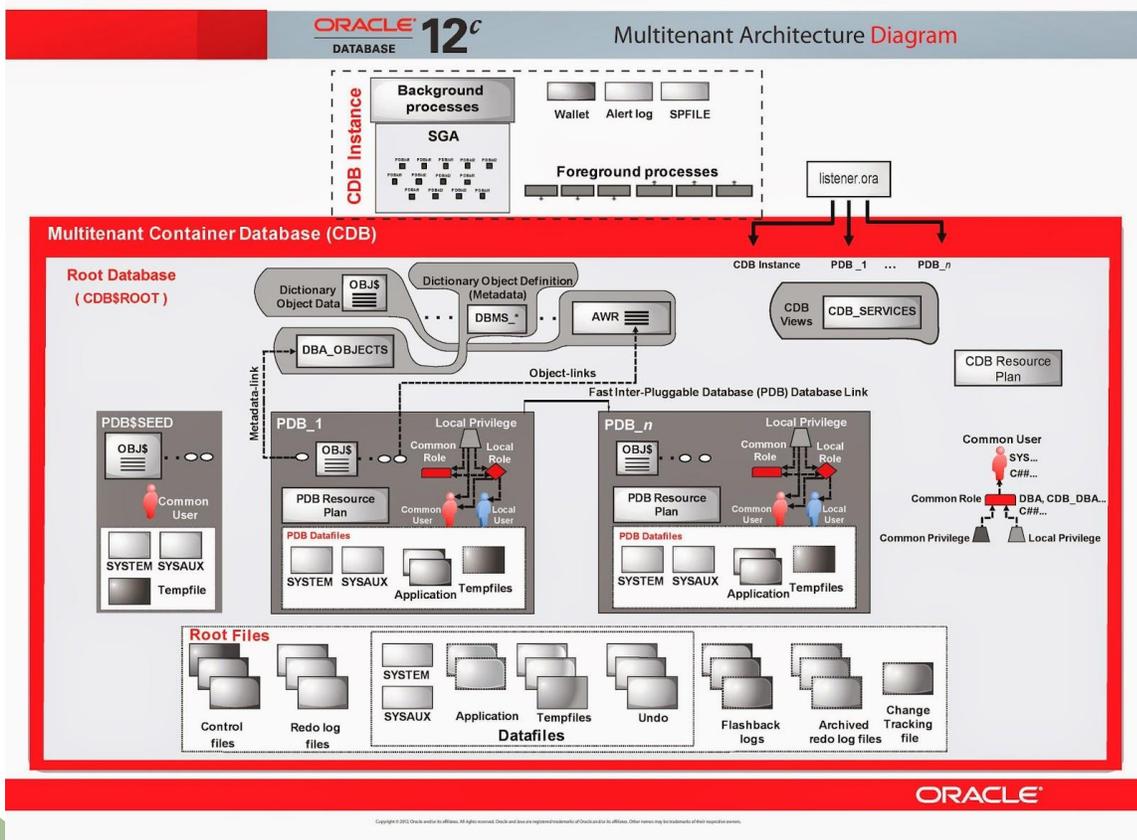
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ORACLE
DATABASE



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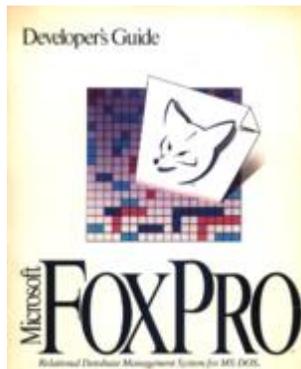


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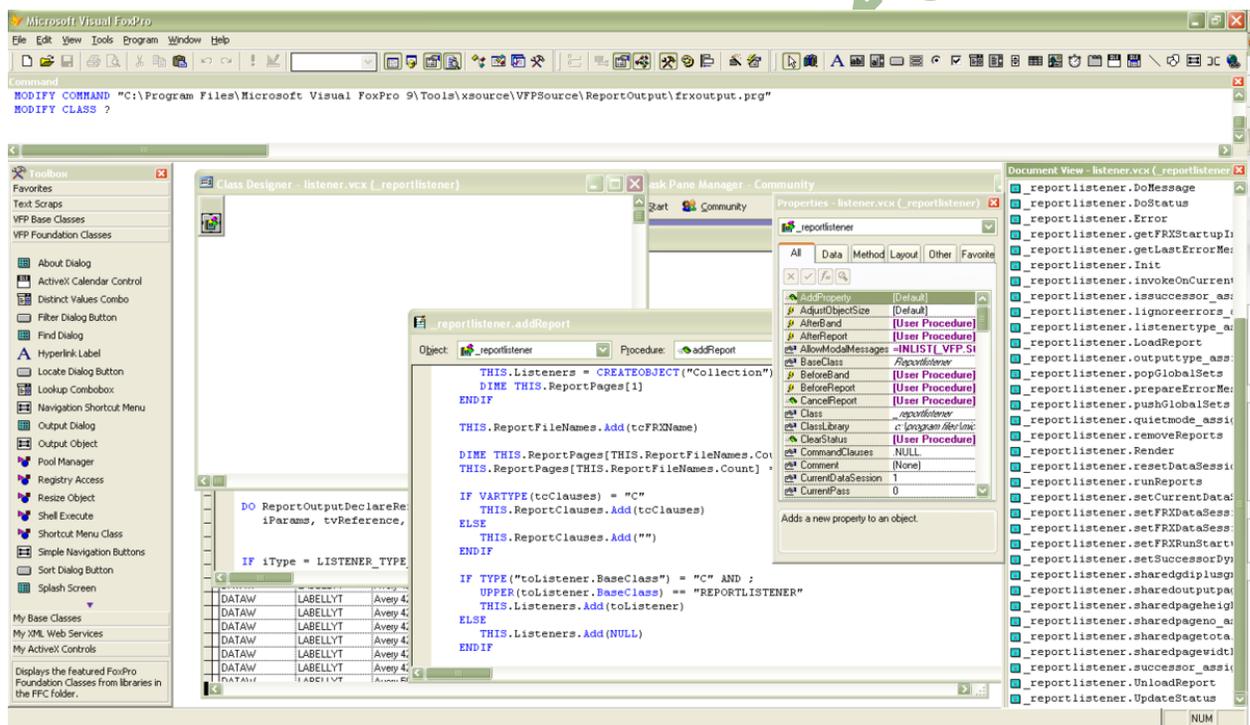
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Above image is of FoxPro

4. Electronic Communication:

We can use computers to send and receive emails through internet. Several programs are available for electronic

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communication.

For Example:

a. Gmail



b. Outlook



c. Yandex Mail



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d. Proton Mail



ProtonMail

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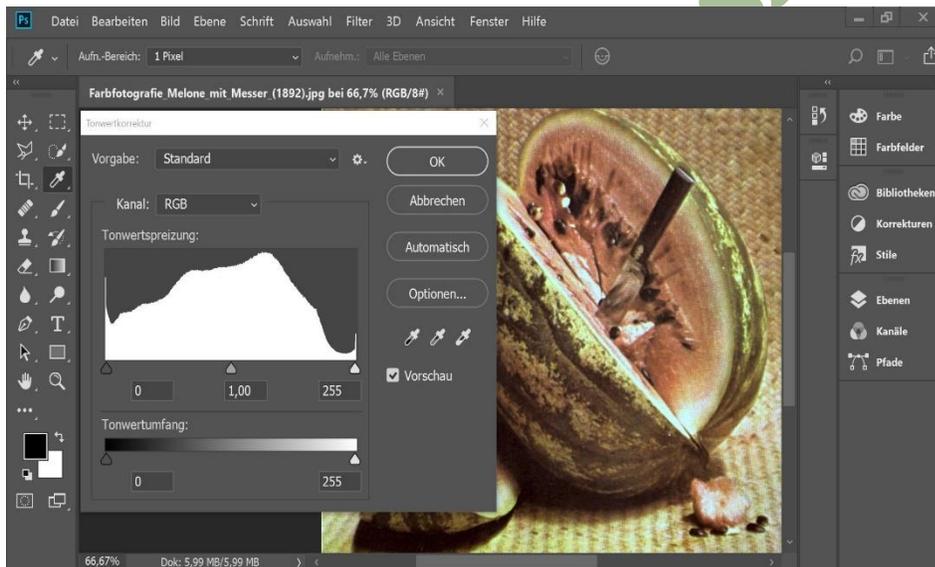
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5. Drawing and Graphics:

Computer graphics software provides the capability to transfer a series of numeric values into graphics for easier analysis and interpretation. Drawing programs are used to create graphics and images.

For Example:

- a. Adobe Photoshop
- b. Coral Draw
- c. AutoCAD

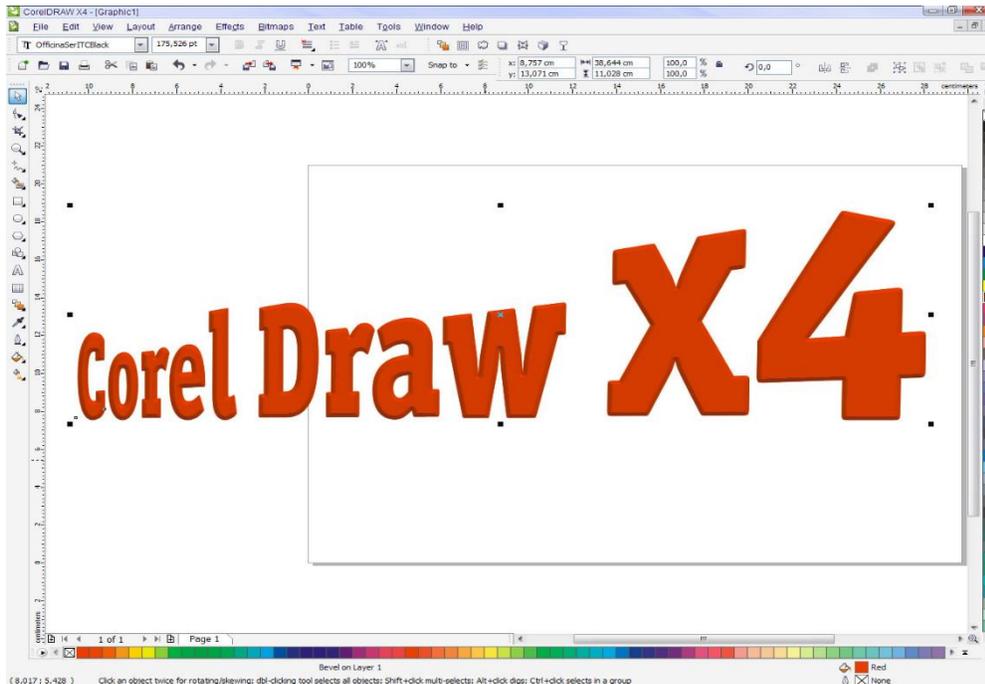


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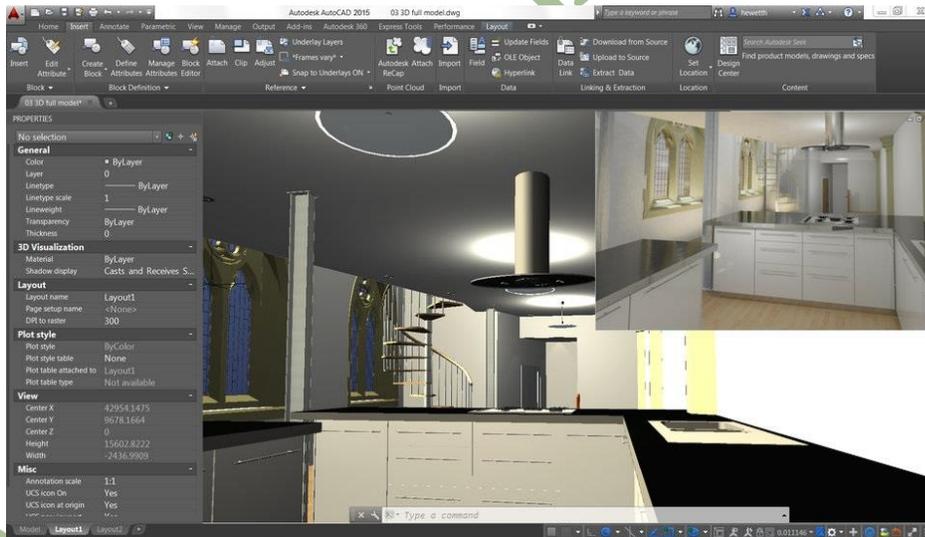
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This is the image of Coral Draw (Above)



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This is the image of AUTOCAD 3D Mode (Above).

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6. Enhanced Presentation:

A presentation program like MS PowerPoint is used to make professional presentations. These presentations can be printed or directly used on projector or big LCD/LED Screens. You can also use these presentations on computer screen.

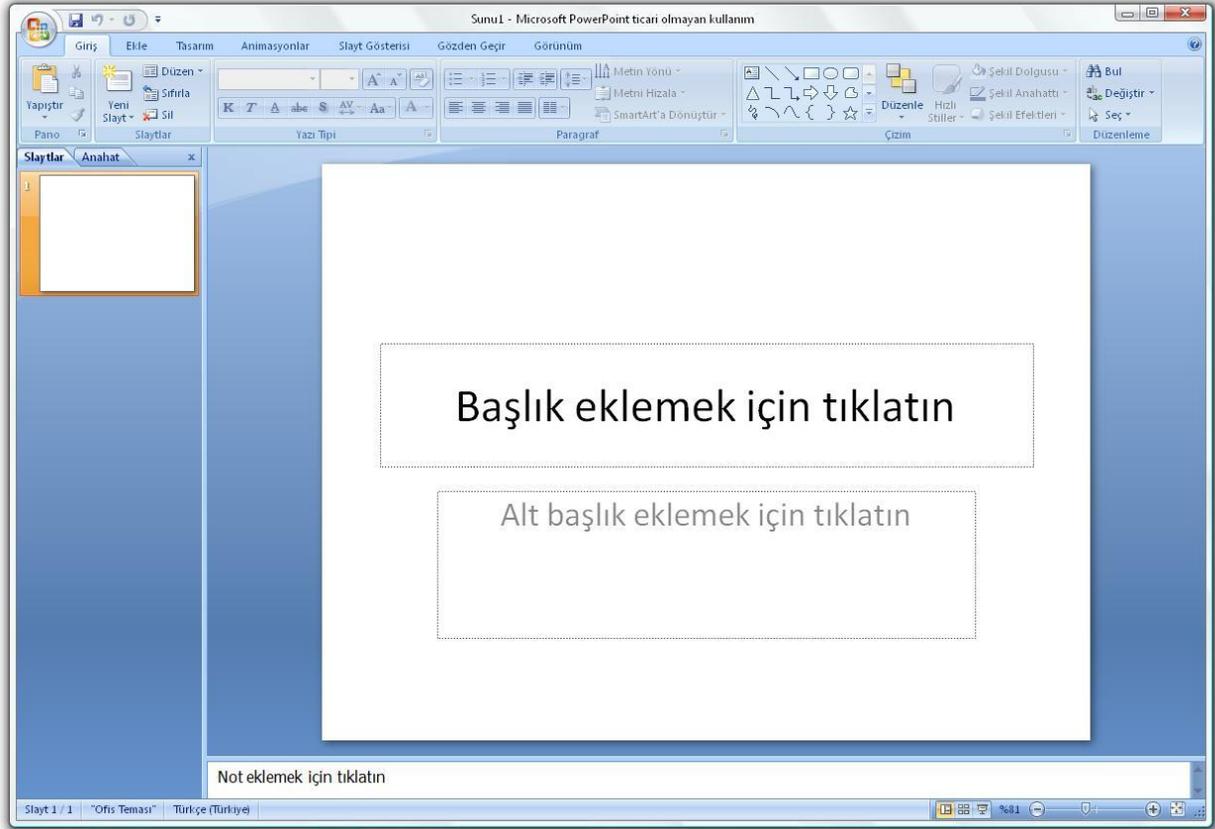
For Example:

- a. MS PowerPoint
- b. Google Slides
- c. Libre Slides

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The image of Powerpoint on computer screen.



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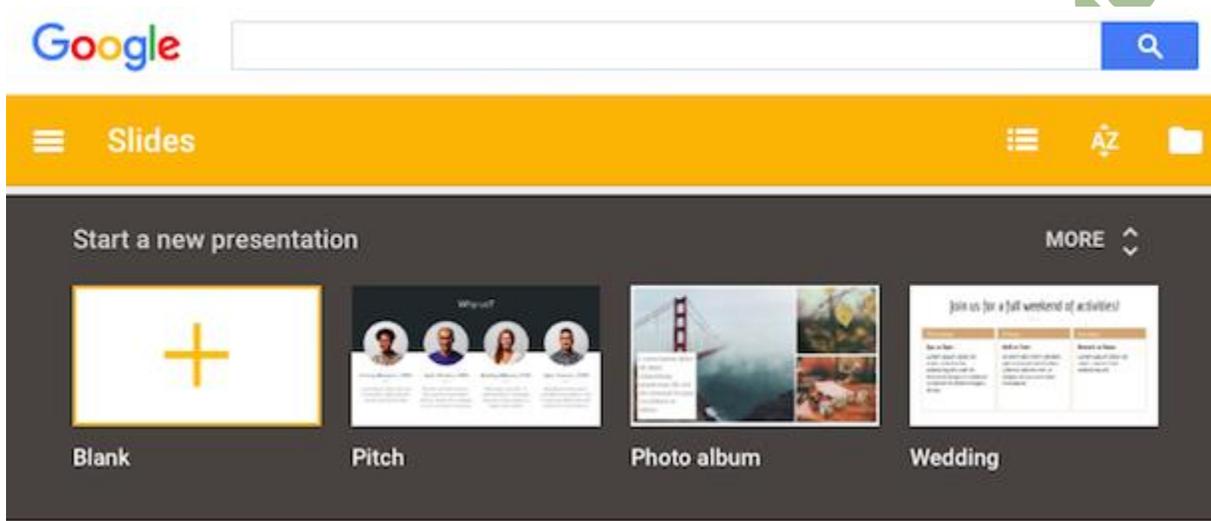
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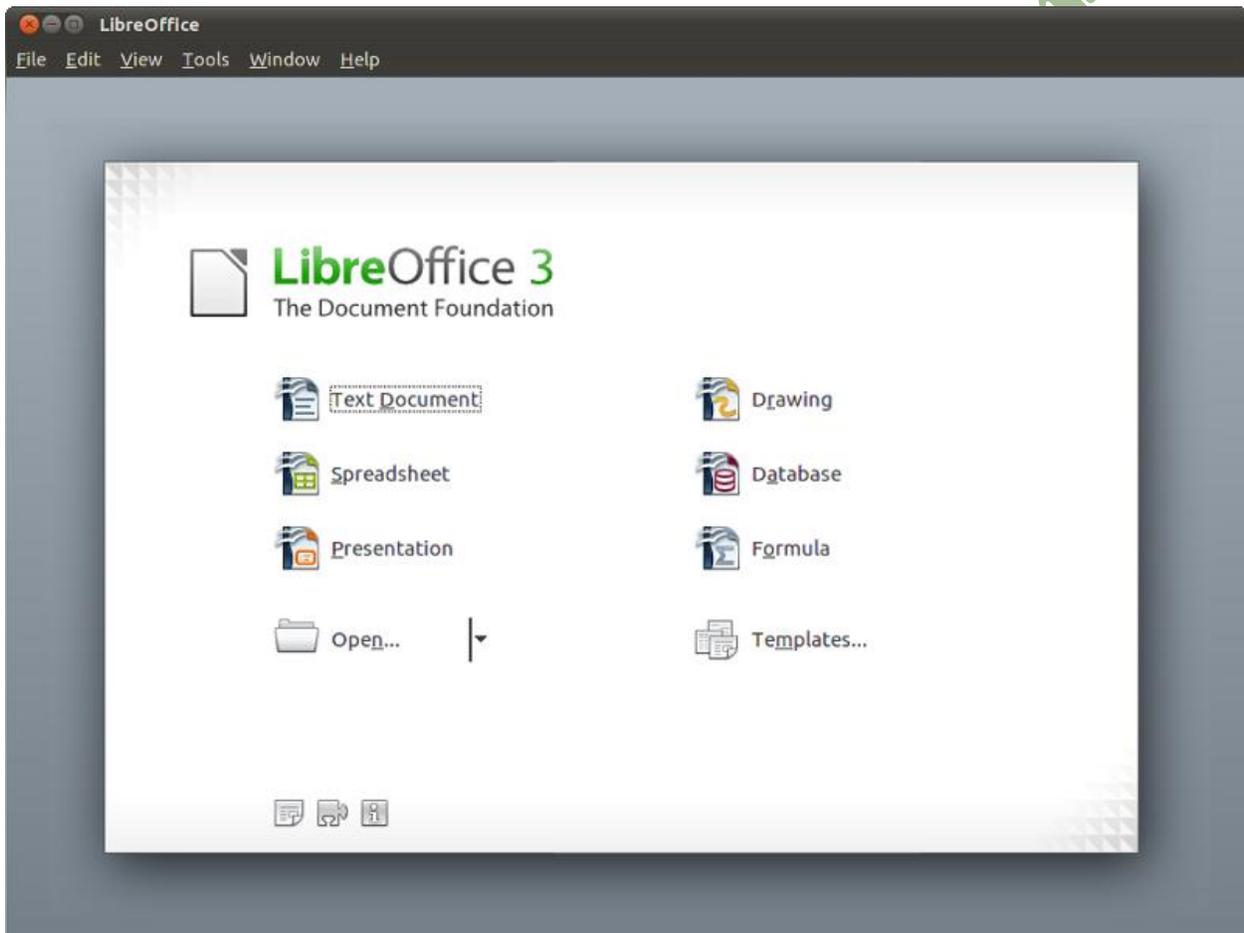
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What is System Software and Utility Program?

Ans: System Software:

1. System Software consists of the programs that control and manage the operations of the computer hardware.
2. It serves as an interface between the user, application program and the computer hardware.
3. No interaction is possible with computers without system software.

For Example:

Operating System is system software. In order to use the computer, you must have an operating system installed on the computer to control its hardware.

Utility Program:

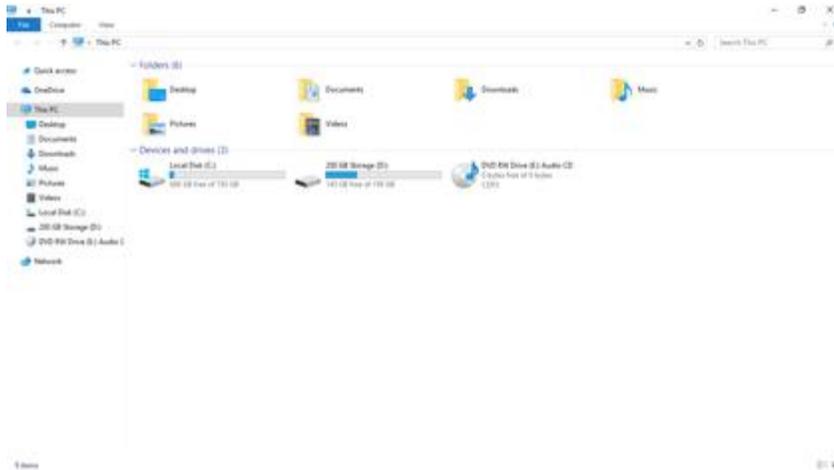
A utility program is a type of System software that performs specific tasks for the user. It is normally, used to solve the common problems of user.

Some examples of utilities programs are:

1. File Viewer:

File viewer is used to view and manage files in computer system. Windows Explorer is an example of file viewer.

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2. **File Compression Software:**

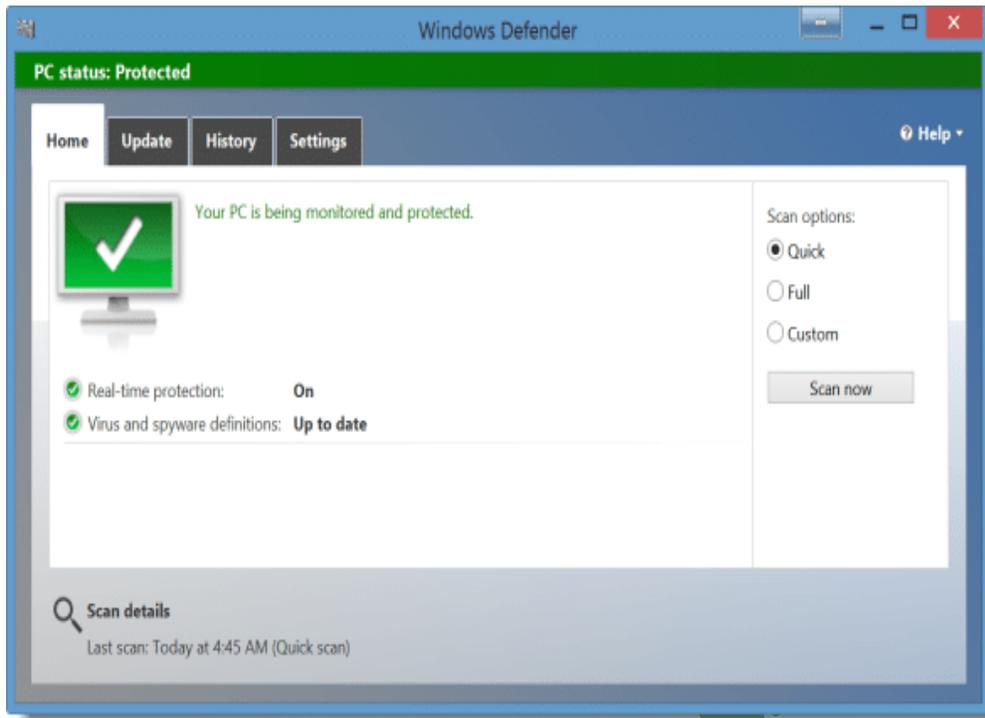
File compression is used to shrink or reduce the file size. WinZip is an example of File Compression.



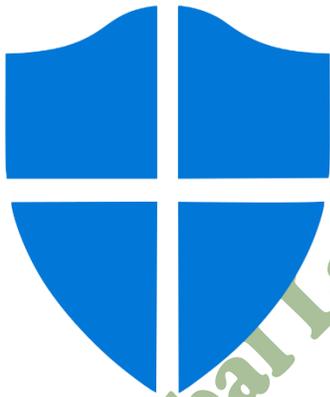
3. **Antivirus:**

A type of software that is used to detect and remove viruses & malware is called antivirus software. It also prevents viruses from infecting your computer.

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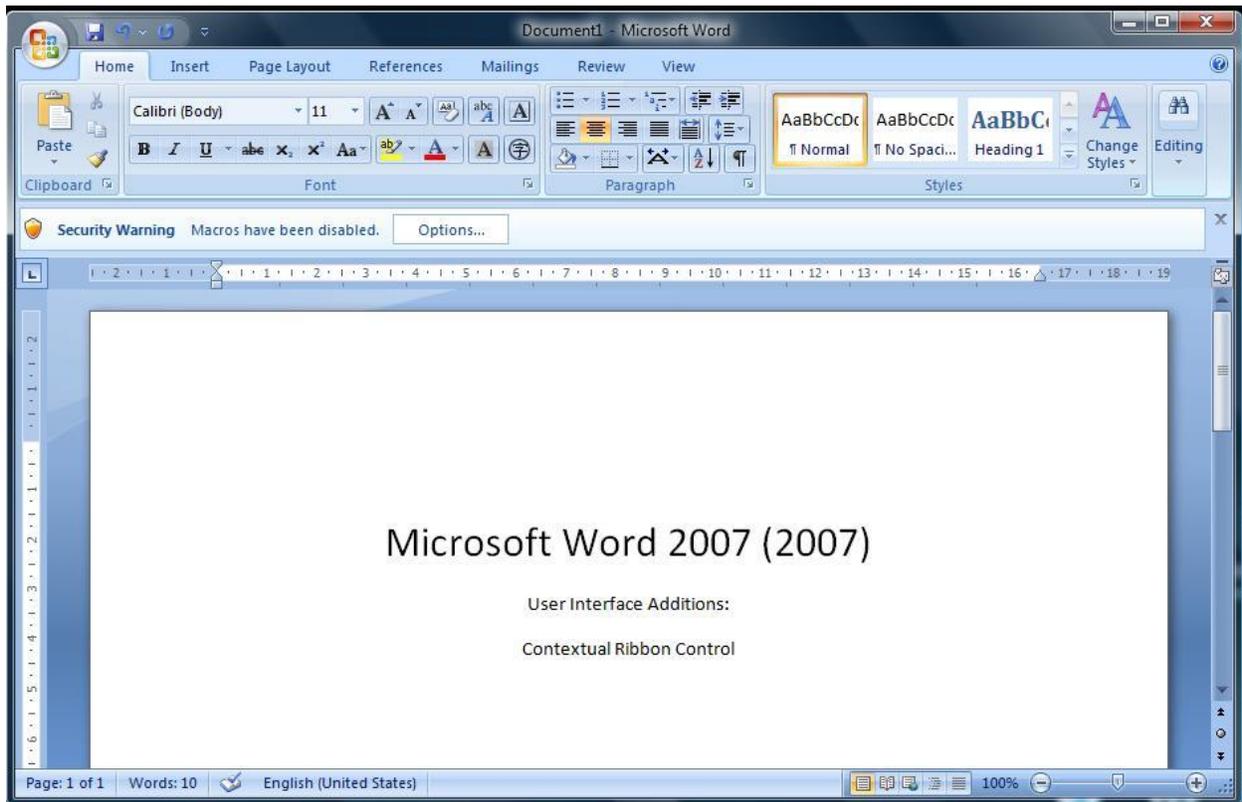


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