

NORTH-EX PUBLIC SCHOOL
(Senior secondary, affiliated to CBSE)
School block, Jain Nagar, Sector-38, Rohini, Delhi-81
LESSON PLAN FOR CLASS IX (Computer Applications)

***Note- Before reading about the topic you must check [this](#) link which will help you in understanding the topics.**

You can download this or if you do not have facility to get printout then you can ask your ward to copy it in a simple notebook and must do exercise in the notebook.

TOPIC: - Types of Software with Worksheet 2

Software, in its most general sense, is a set of instructions or programs instructing a computer to do specific tasks. Software is a generic term used to describe computer programs that run on PCs, mobile phones, tablets, or other smart devices. Software is often used to describe all the functional aspects of a computer that do not refer to its physical components (hardware). Scripts, applications, programs and a set of instructions are all terms often used to describe software. Everything that “runs” on a computer, from an operating system, to a diagnostic tool, video game, or app can be defined as software.

Software is basically classified into two categories, System Software and Application Software. Where System Software acts as an interface between Application Software and hardware of the computer. The Application Software acts an interface between user and System Software. We can distinguish System Software and Application Software on account of the purpose of their design

1. System Software:

System Software is the software that is written in a **low-level language**, like assembly language. The main purpose of System Software is to **manage and control the resources of the system**. It takes care of memory management, process management, protection and security of the system. It also provides the computing environment to the other software like Application Software.

The System Software creates an interface between the hardware of the system and the user. It makes the systems understand, the command entered by the user. It also acts as an interface between Application Software and hardware. The System Software start running when the system is turned on and manages all the resources of the system and it runs till the system is turned off.

The System Software is **general purpose software** and is essential for the working of the computer. Generally, the end user does not interact with the System Software directly. The user interacts with the GUI created by System Software. The best example for the System Software is Operating System

2. Application Software:

Application Software is a software written in a **high-level language** like Java, VB, .net, etc. Application Software is user specific and is design to meet the requirements of the user. It may be a computing software, editing software, designing software, etc. That means each Application Software is designed for a specific purpose.

The Application Software run on the platform created by the System Software. Application Software is an intermediary between the end user and System Software. You can install multiple Application Software on a System Software. Application Software is not essential to run a system, but it makes the system useful. The examples for Application Software are MS Office, Photoshop, etc.

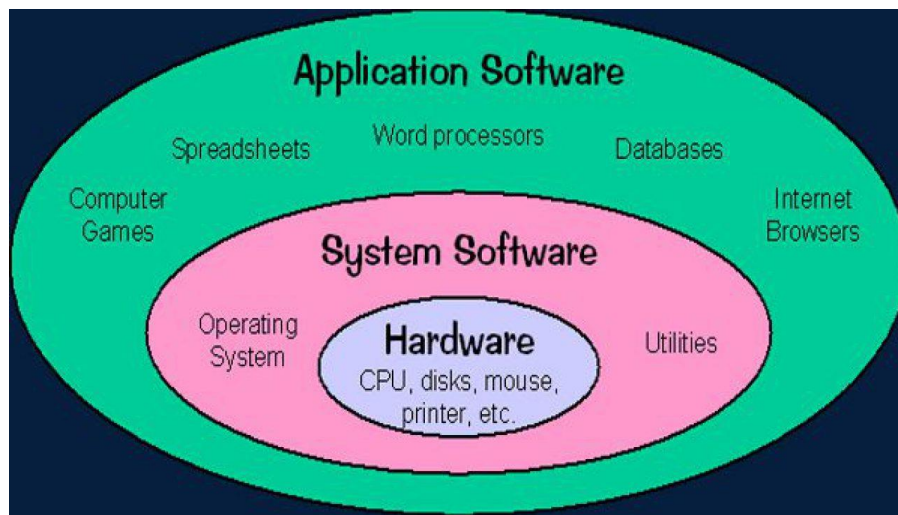


Fig. 1

3. Key Difference between System Software & Application Software:

- I) System Software is designed to manage the system resources like memory management, process management, protection and security, etc. and it also provides the platform for the application software to run. On the other hand, the Application Software is designed to meet the user requirements of performing specific tasks.
 - II) The System Software is written in a low-level language like assembly language. However, Application Software is written in a high-level language like Java, C++, .net, VB, etc.
 - III) The System Software starts running as the system is powered on and run till the system is powered off. The Application Software starts when the user starts it and stops when the user stops it.
 - IV) A system cannot run without the System Software whereas, the Application Software is user specific they are not required to run a system; they are meant only for the users
 - V) Where the System Software is general purpose software, the Application Software is a specific purpose software.
 - VI) The best example of System Software is Operating system whereas, the examples of Application Software is Microsoft Office, Photoshop, etc
4. **Conclusion:** Both, the System Software and the Application Software together make a system useful for the end user. The System Software is compulsory for the system to work. Similarly, the Application Software are necessary for the user to perform their specific task.

Worksheet 2

Note: Attempt all questions mentioned below in your notebook.

- Q1) Define Software.
- Q2) Write short notes on i) System Software ii) Application Software
- Q3) Write any 5 difference between System Software & Application Software with examples.
- Q4) Which type of software is uses Low level language?
- Q5) Operating system is example of System Software. True or False. Kindly mention.

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