

# NIELIT Gorakhpur

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**Course Name: O Level (2nd Sem)**

**Subject: ITTNB**

**Topic: Softwares and its types**

**Date: 20-03-20**

**Software:-**A program is a sequence of instructions written to solve a particular problem called program. Software is a set of programs, which is designed to perform a well-defined function. Software is the set of instructions that tells the hardware what to do. The software physically not exists in nature. Essentially, computer software controls computer hardware. These two components are complementary and cannot act independently of one another. In order for a computer to effectively manipulate data and produce useful output, its hardware and software must work together. Without software, computer hardware is useless. There are two types of software system software & application software.

**System Software:-**System Software (the type of computer program) provides a platform to run a computer's hardware and computer application to utilize system resources and solve their computation problem. It is written in a low-level language, so it can easily interact with hardware with the primary level. It controls the working of peripheral devices. System software acts as a scheduler for the execution of the processes and arrange the sequence according to their priority and I/O devices requirement and creation of the process. The best-known example of system software is the operating system (OS). It responsible for manages all the other programs on a computer. Some examples of system software are Operating System, Compilers, Interpreter, Assemblers, etc.

**Application Software:-**Application software, or simply applications, are often called productivity programs or end-user programs because they

enable the user to complete tasks, such as creating documents, spreadsheets, databases and publications, doing online research, sending email, designing graphics, running businesses, and even playing games!. When you begin creating a document, the word processing software has already set the margins, font style and size, and the line spacing for you. But you can change these settings, and you have many more formatting options available. For example, the word processor application makes it easy to add color, headings, and pictures or delete, copy, move, and change the document's appearance to suit your needs.

### **Difference between System Software & Application Software**

S.No.	System Software	Application Software
1	System Software maintains the system resources and gives the path for application software to run.	Application software is built for specific tasks.
2	Low level languages are used to write the system software.	While high level languages are used to write the application software.
3	Without system software, system can't run.	While without application software system always runs.
4	System software runs when system is turned on and stop when system is turned off.	While application software runs as per the user's request.
5	Its a general purpose software.	While its a specific purpose software.
6	Example of system software are operating system, etc.	Example of application software are Photoshop, VLC player etc.

Exercise:-

1-What are software & its type?

2-Write difference between System Software & Application Software.