

Computer Architecture of Software

Q 1. What is important of software development .

Ans. Software solutions are developed to address specific problems and challenges in various fields, such as healthcare, education, and environmental science.

Q 2. What is the need of software:-

Software is essential for computers to perform tasks and operate, and it can also help businesses work more efficiently:

- Computer tasks

Software is a set of instructions, data, or programs that computers use to perform tasks. Without software, computer hardware cannot function.

- Business efficiency

The right software can help businesses work more efficiently and lead to new ways of working.

- User experience

System software helps users interact with the computer's hardware by providing a user-friendly environment.

- Application functions

Application software helps users perform specific functions, such as writing reports and navigating websites. Examples of application software include web browsers like Firefox and Google Chrome, as well as Microsoft Word and Excel.

There are two main categories of software:

- Application software: Performs specific functions for users
- System software: Runs a computer's hardware and provides a platform for applications to run on

Other types of software include: Programming software, Middleware, and Driver software.

Need of Software:

- **Handling Big Projects:** A corporation must use a software engineering methodology in order to handle large projects without any issues.
- **To manage the cost:** Software engineering programmers plan everything and reduce all those things that are not required.

- **To decrease time:** It will save a lot of time if you are developing software using a software engineering technique.
- **Reliable software:** It is the company's responsibility to deliver software products on schedule and to address any defects that may exist.
- **Effectiveness:** Effectiveness results from things being created in accordance with the standards.
- **Reduces complexity:** Large challenges are broken down into smaller ones and solved one at a time in software engineering. Individual solutions are found for each of these issues.
- **Productivity:** Because it contains testing systems at every level, proper care is done to maintain software productivity.