

## Software Quality: Defining and Importance of Software Quality

quality refers to the degree to which software meets the specified requirements, satisfies customer needs, and performs without defects.

It encompasses a broad range of characteristics, from functionality and usability to reliability, performance, and maintainability.

High-quality software is typically defined by its ability to perform tasks effectively, be free of defects, be user-friendly, and be easily maintained and updated.

### Key Characteristics of Software Quality

1. Functionality: The software should meet all specified functional requirements and perform the intended tasks correctly.
2. Reliability: Reliability is the ability of the software to perform consistently over time without failure. It includes factors such as fault tolerance, error handling, and stability.
3. Usability: Usability refers to how easy and intuitive the software is for users. This includes user interface design, documentation, and how easily users can learn and use the software.