

Chapter - 1

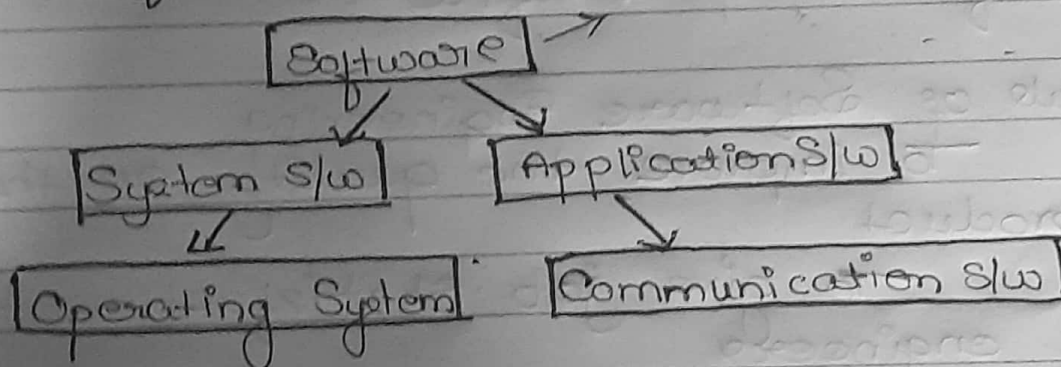
Introduction to Software Engineering

Definition Software

* A Software is a set of instructions or computer programs instructing a computer to do specific task.

The theory of Software was first proposed by Allen Turing in 1935

Software products may be developed for a particular customer or may be developed for a general market

Classification of SoftwareSystem S/w

Set of programs to control & manage the operations of Computer hardware.

Eg:- Operating Systems, device drivers, printer, linker, OS, loader, Compiler, assembler

Application S/w

It is created to perform specific tasks for a user

Eg Ms word, photoshop etc
 Ms office, Java, Google chrome etc

Characteristics of Software

- * Software is engineered not manufactured
- * S/W is Intangible
- * S/W failed components must be re-engineered
- * Maintainability : S/W should meet & changing needs of customers
- * Usability :- The S/W should have appropriate user & enough no. of documentation
- * Dependability - Means reliability that is safe and secure

What is S/W Engineering?

It is the systematic approach to the development, operation, maintenance and modification of a software.

Goals of Software Engineering

- To improve the quality of the S/W product
- To give job satisfaction to the S/W engineers
- To increase productivity