

SOFTWARE

What is software?

Software is a set of instructions or collection of program or programs that performed specific task with the help of hardware component. This specific part of computer is untouchable.

Classification of software.

Software can be classified into two types:

APPLICATION SOFTWARE

SYSTEM SOFTWARE

Application Software

Application software is a collection of programs which is designed for end users to help him /her solve a particular type problems and use the computer efficiency.

Examples

- Word processor
- Spreadsheet
- Database Management System
- Browser, etc.

System software

System software is a collection of program that are written to operate and manage the computer resources.

System software are three types

- Operating System
- Language Translator
- System Utility

OPERATING SYSTEM (OS)

An operating system is a software that acts as an interface between the user and the hardware of computer. It also manage different types of resources of computer such as memory, process, input-output devices etc.

Functions of Operating System

- Provide User Interface to interact with computer.
- Memory Management
- Process Management
- Device Management
- File Management

Classification of Operating System

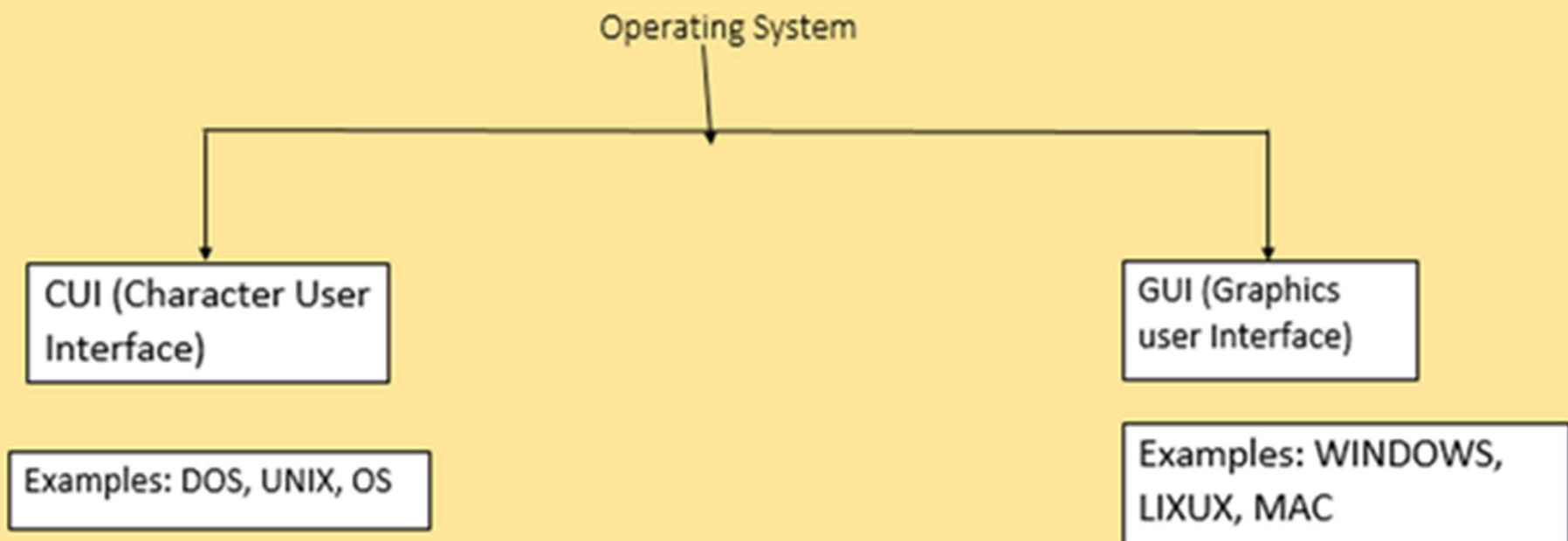
OS can be classification in three different parameters.

Based on User Interface.

Based on Number of Users.

Based on Number of Tasks.

Classification of OS based on user interface



Classification of OS based on number of user interface

Operating System

Single User

Example: DOS, WINDOWS

Multi User

Examples:
LINUX, UNIX, NOVEL

Calcification of OS based on number of task

Operating System

Single Tasking

Examples: DOS, UNIX, PALM OS

Multi-Tasking

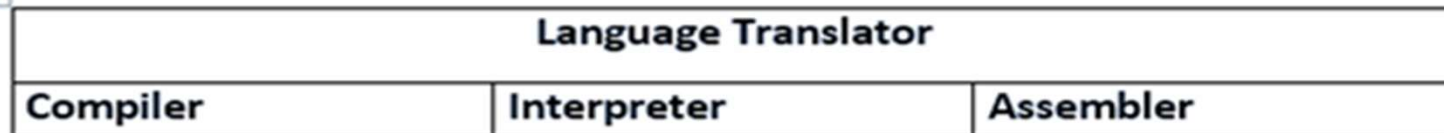
Examples:
WINDOWS, LINUX, MAC OS

Language Translator

Language translator is a special type of software that helps to convert any type of computer programming language into machine language. CPU of computer can only understand Machine Language (0, 1). So if we can't convert programming information that may be written using visual Basic ,C, C++,JAVA Etc. It can't be understood by CPU.

Language Translator is three types:

- **Compiler**
- **Interpreter**
- **Assembler**



System Utility

System Utility are some special type of software ,those helps to Operating System to provide better service and worked reliably.

Examples:

- Different device drive
- Disk Defragmentation process
- Disk clean up
- Error checking Etc.

Firmware:

Firmware is a special part of our computer that actually a combined part of hardware and software .When a special program is written inside a hardware chip than its called Firmware.

Example:

Bootstrap Loader