*The operating system (OS)* is the most important program that runs on a computer. Every general-purpose computer must have an operating system to run other programs and applications. An OS has three main function: (1) manage the computer’s resources, such as the central processing unit, memory, disk drivers, and printer, (2) establish a user interface, and (3) execute and provide services for applications software.

*The three most popular types of operating systems* for personal and business computing include *Linux, Windows and Mac.*

* *Microsoft Windows* is a family of operating systems for personal and business computers. Windows dominates the personal computer world, offering a graphical user interface, virtual memory management, multitasking, and support for many peripheral devices.
* *Mac OS* is the official name of the Apple Macintosh operating system. Mac OS features a graphical user interface that utilizes windows, icons and all applications have a similar user interface.
* *Linux* is a freely distributed open source operating system that runs on a number of hardware platforms.

*Classification of OS:*

* *Multi-user*: allows two or more users to run programs at the same time
* *Multiprocessing:* supports running a program on more than one CPU
* *Multitasking:* allows more than one program to run concurrently
* *Multithreading:* allows different parts of a single program to run concurrently

All major operating systems such as Windows, Mac and others all have a graphical user interface. You simply click on or tap the icon to complete an action, whether that’s opening the application, viewing the menu or completing any other process.

The major benefit is that systems using one are accessible to people of all levels of knowledge, from an absolute beginner to an advanced developer. They make it simple for anyone to open menus, move files, launch programs. *What are the disadvantages of using a graphical user interface?* GUIs can use a lot more processing power, because the elements are graphics rather than text.

In conclusion, I want to say that the ideal OS cannot be found, but we can choose according to the requirements.