Wednesday 8th September 2021

Multitasking

Keywords:

* Interface
* Operating System – Low level software which supports basic functions such as scheduling and controlling hardware
* Interrupt
* API

Scheduling

1 – Programs are loaded into memory and held in a queue by the Operating System.

2 – The Program at the front of the queue is run by the CPU. After a short time, if the program is not finished, it is moved to the back of the queue.

3 – The next program in the queue is run by the CPU, and the cycle repeats.

Memory Management

When programs are loaded, the operating system decides where the program will be held in memory. However, as programs are opened and closed overtime, the memory becomes fragmented.

Because of this, programs loaded into memory can be split into different parts that are held in different areas of memory. This is because it would take too long to move programs in memory around so that they are together.