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**UNIX-Lab1**

#3 What is the difference between virtual memory and resident memory?

Virtual memory is very common technique which is used in a computer’s operating system (OS). It can handle twice as many addresses as main memory. It enables more applications to be used at once. It frees applications from managing shared memory and saves users from having to add memory modules when RAM space runs out. It also increases security because of memory isolation. It enables multiple larger applications to run simultaneously. On the other hand, Resident memory is the part of the process memory that corresponds to the physical memory in operational use by this process. Over time, the operating system may swap out some of a process's resident memory according to a least-recently-used algorithm to make room for other code or data.

#4 Three processes by program

update-notifier-The process known as Update Tool Notifier belongs to software Update Center by Oracle (www.oracle.com). Description: Update Tool Notifier.exe is not essential for the Windows OS and causes relatively few problems.

xdg-desktop-por-xdg-desktop-portal A portal frontend service for Flatpak and possibly other desktop containment frameworks. xdg-desktop-portal works by exposing a series of D-Bus interfaces known as portals under a well-known name (org.freedesktop.portal.Desktop) and object path (/org/freedesktop/portal/desktop).

gnome-terminal--GNOME Terminal is a terminal emulator for the GNOME desktop environment written by Havoc Pennington and others. Terminal emulators allow users to access a UNIX shell while remaining on their graphical desktop.