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Practical-1

1. What is the difference between Open-Source and proprietary software.

Open Source	Proprietary
Open-source software is computer software whose source code is available openly on the internet and programmers can modify it to add new features and capabilities without any cost.	Proprietary software is computer software where the source codes are publicly not available only the company which has created can modify it.
Here the software is developed and tested through open collaboration.	Here the software is developed and tested by the individual or organization by which it is owned not by the public.
In open-source software the source code is public.	In proprietary software, the source code is protected.
Examples are Windows, macOS, Internet Explorer, Google Earth, Microsoft Office, Adobe Flash Player, Skype, etc.	Examples are Windows, macOS, Internet Explorer, Google Earth, Microsoft Office, Adobe Flash Player, Skype, etc.
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Examples are Android, Linux, Firefox, Open Office, GIMP, VLC Media player, etc.	Examples are windows,mac os etc.

2. Difference between IOS and Android.

IOS	Android
It was developed and is owned by Apple Incorporation .	It was developed by Google and Open Handset Alliance and is owned by Google LLC .
IOS was initially released on July 29, 2007	Google was initially released on 23 September 2008.
when IOS was released its first version is iPhone OS 1 before named IOS.	When Google released its first version of Android 1.0, Alpha.
It was launched in 2007.	It was launched in 2008.
Its target system types are smartphones, music players, and tablet computers.	Its target system types are smartphones and tablets.
IOS has Siri as Voice Assistant.	Google has Google Assistance.
File transfer in android is easier than in IOS.	File transfer in IOS is more difficult than in android.
IOS devices are available in 34 languages.	Android Devices are available in 100+ languages.
IOS-based devices have the feature of blocking 3rd party app stores.	But Google doesn't block 3rd party app stores.

3. Difference between CLI vs GUI

CLI	GUI
CLI is difficult to use.	Whereas it is easy to use.
It consumes low memory.	While consuming more memory.
In CLI we can obtain high precision.	While in it, low precision is obtained.
CLI is faster than GUI.	The speed of GUI is slower than CLI.
CLI operating system needs only a keyboard.	While GUI operating system needs both a mouse and keyboard.
CLI's appearance cannot be modified or changed.	While its appearance can be modified or changed.
In CLI, input is entered only at a command prompt.	While in GUI, the input can be entered anywhere on the screen.

4. Difference between Windows ,Mac and Linux.

OS	Developer	Primary Use	License	User Interface	Compatibility
Windows	Microsoft	Personal computers, laptops	Requires a license	Graphical	Supports most software and hardware
Mac	Apple	Mac computers, Hackintosh	Requires a license	Graphical	Proprietary hardware and software
Linux	Community of developers	Servers, Desktops, Embedded systems	Open-source, free to use	Graphical, Command Line	High compatibility with open-source software and hardware