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BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

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A) Describe Open-Source Software with Example.

Open source software is software with source code that anyone can inspect, modify, and enhance. "Source code" is the part of software that most computer users don't ever see. It's the code computer programmers can manipulate to change how a piece of software—a "program" or "application"—works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

Examples of Open-Source Software

Open-source technologies helped establish much of the internet. Furthermore, many of the programs you and I use every day are based on open-source technologies. For example, Android OS and Apple's OS X are based on the kernel and Unix/BSD open-source technologies, respectively.

B) Describe Free Software with Example

Free software is software that can be freely used, modified, and redistributed with only one restriction: any redistributed version of the software must be distributed with the original terms of free use, modification, and distribution (known as **copyleft**). The definition of free software is stipulated as part of the GNU Project and by the **Free Software Foundation**. Free software may be packaged and distributed for a fee; the "free" refers to the ability to reuse it, modified or unmodified, as part of another software package. As part of the ability to modify, users of free software may also have access to and study the **source code**.

Example :Linux kernel, apache, the gimp,etc.

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C) Difference between Free and Open-Source Software.

S.No.	FS Philosophy	OSS Philosophy
1.	Software is an important part of people's lives.	Software is just software. There are no ethics associated directly to it.
2.	Software freedom translates to social freedom.	Ethics are to be associated to the people not to the software.
3.	Freedom is a value that is more important than any economical advantage.	Freedom is not an absolute concept. Freedom should be allowed, not imposed.
4.	Examples: The Free Software Directory maintains a large database of free-software packages. Some of the best-known examples include the Linux kernel, the BSD and Linux operating systems, the GNU Compiler Collection and C library; the MySQL relational database; the Apache web server; and the Sendmail mail transport	Examples: Prime examples of open-source products are the Apache HTTP Server, the e-commerce platform osCommerce, internet browsers Mozilla Firefox and Chromium (the project where the vast majority of development of the freeware Google Chrome is done) and the full office suite LibreOffice.