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## **PRACTICAL 3: BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE**

### **a) Describe open source Software with Example.**

Open-source software is a type of computer software in which source code is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software to anyone and for any purpose. Open-source software may be developed in a collaborative public manner.

Open source Software is released through a specific kind of license that makes its source code legally available to end-users. The source code can be repurposed into other new software, meaning anyone can take the source code and distribute their own program from it.

### **Some examples of open source software:**

Linux operating system

Android by Google

Open office

Firefox browser

VCL media player

Moodle

### **b) Describe Free Software with Example**

The concept of free software is the brainchild of Richard Stallman, head of the GNU Project. The best known example of free software is Linux, an operating system that is proposed as an alternative to Windows or other proprietary operating systems. Debian is an example of a distributor of a Linux package.

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## Some examples of free source software:

- The Linux kernel, of course! The Linux kernel is protected by the GPL, and is used daily by millions of people throughout the world. ...
- Apache, the most widely used web server in the world. ...
- The Gimp is a powerful bitmap mode digital creation program. ...
- PostgreSQL is an object-relational database.

### c) Difference between Free and open source Software.

SR.NO	Free Source Software	Open source Software
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 agent.	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.

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