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### PRACTICAL 3:

#### BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

a) Describe Open Source Software with Example.

Open Source Software(OSS) is a software with source code that anyone can inspect, modify, and enhance. It usually includes license for programmers to change the software in any way they choose, they can fix bugs, improve functions or adapt the software to suit their own needs. For example linux is the best example of open source, new programs can be created from its nucleus or kernel.

More examples can be :

- Mozilla Firefox
- Apache Web Server
- VLC media player
- jQuery

b) Describe Free Software with Example.

Free software is a 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. The GIMP is a powerful bitmap mode digital creation program.Because of their high quality and openness, several free software programs have become leaders in their field or comprise the core of an entire industry. In spite of being relatively new, The Gimp has rapidly become serious competition for Photoshop

More examples can be:

- Thunderbird
- Openoffice
- BitTorrent

c) Difference between Free and Open Source Software.

| Free Software   | Open Source Software   |
|---|--|
| Development methodology   | Social movement  |
| Free redistribution of the software.  | The freedom to run the program as you wish, for any purpose.   |
| Freedom is a value that is more important than any economical advantage                             | Freedom is not an absolute concept. Freedom should be allowed, not imposed.                            |
| Examples: linux kernel, BSD and linux operating systems, the GNU compiler collection and C library. | Examples: Apache HTTP Server, the e-commerce platform, internet browser, full office suite LibreOffice |