

Practical 3

Basic Understanding on Free and Open-Source Software

a) Describe Open-Source Software with Example.

Ans: Open Source software (OSS) is software that is distributed with its source code, making it available for use, modification, and distribution with its original rights. Source code is the part of software that most computer users don't ever see; it's the code computer programmers manipulate to control how a program or application behaves.

examples are:

- GNU / Linux
- Mozilla Firefox
- jQuery
- VNC
- VLC media player

b) Describe Free software with Examples

Ans: Free software is computer software distributed under terms that allow users to run the software for any purpose as well as to study, change, and distribute it and any adapted version. Free software is a matter of liberty,

not price; all users are legally free to do what they want with their copies of a free software regardless of how much is paid to obtain the program. Computer programs are deemed "free" if they give end-users ultimate control over the software and, subsequently, over their devices.

examples:

- Linux Kernel
- BSD
- Linux operating systems
- GNU compiler collection
- C library

1) Difference between open source and free source software

Open source Software	Free source Software
1) Open source Software is something which means software you can modify as per your needs.	1) Free source software means software that respects user freedom and community
2) user can share with others without any licensing violation burden.	2) In Free source, user has the freedom to share with others
3) In Open source, source code of software is available publicly which allows you to edit source code and distribute it.	3) Roughly, it means the user has freedom to run, copy, distribute, study, change and improve the software.
4) Software is just software. There are no ethics associated directly to it.	4) Software is an important part of people's lives
5) Ethics are to be associated to the people not to the software.	5) Software freedom translates to social freedom