Title: Basic Understanding on Free and Open-Source Software

a) Describe Open-Source Software with example.

Open-Source Software: Open-source software (OSS) is computer software that is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software and its source code to anyone and for any purpose. Open-source software may be developed in a collaborative public manner. Open-source software is a prominent example of open collaboration, meaning any capable user is able to participate online in development, making the number of possible contributors indefinite. The ability to examine the code facilitates public trust in the software.

Open source code can be used for studying and allows capable end users to adapt software to their personal needs in a similar way user scripts and custom style sheets allow for web sites, and eventually publish the modification as a fork for users with similar preferences, and directly submit possible improvements as pull requests.

Example:

- 1. Magento
- 2. Mozilla Firefox
- 3. Mozilla Thunderbird
- 4. FileZilla
- 5. GnuCash
- 6. Audacity

b) Describe Free Software with Example

Free Software: 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 versions. 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 (including profiting from them) regardless of how much is paid to obtain the program. Computer programs are deemed "free" if they give end-users (not just the developer) ultimate control over the software and, subsequently, over their devices.

Users of free software may have access to and study the source code as part of their ability to modify it. The right to study and modify a computer program entails that source code—the preferred format for making changes—be made available to users of that program. While this is often called "access to source code" or "public availability", the Free Software Foundation (FSF) recommends against thinking in those terms, because it might give the impression that users have an obligation (as opposed to a right) to give non-users a copy of the program.

Example:

- 1.Linux kernal
- 2. The BSD and Linux Operating Systems
- 3. The GNU compiler collection and C library
- 4. The MySQL relational database
- 5.The Apache Web Server
- 6. The Sendmail mail Transport agent

c) Difference Between Free and Open-Source Software

Free Software	Open Source Software
1.Free Software usually refers open	1. Your source code is accessible to
source under GNU GPL license. Because	anyone to read and modify and
the word free in English means cost the	redistribute depending on license
terms open source was created.	conditions. Publishing source code online
	without the public being able to modify
	them doesn't make lots of sense.
2.Software is an important part of	2.Software is just software. There are no
people's lives.	ethics associated directly to it.
3.Software freedom translates to social	3.Ethics are to be associated to the people
freedom	not to the software
4. Users of free software may have access	4.Open source code can be used for
to and study the source code as part of	studying and allows capable end users to
their ability to modify it.	adapt software to their personal needs
5.Freedom to run program for any	5.It has distribution of licence
purpose	
6.Freedom to distribute copes of software	6.Free distribution
7.Free software is a social movement	7. Open software is a development
	methodology
8.Free software focuses on providing a	8.Open source tends to focus on
moral/ethical argument for open source	providing an economic/business argument
	for free software
9. Using free software is a good, morally	9. Using open source software is beneficial
right thing to do	to you and your business
10.Examples: The Free Software	10.Examples: Prime examples of open-
Directory maintains a large database of	source products are the Apache HTTP
free-software packages. Some of the best-	Server, the ecommerce platform os
known examples include the Linux	Commerce, internet browsers Mozilla
kernel, the BSD and Linux operating	Firefox
systems, the GNU Compiler Collection	
and C library;	