PRACTICAL 3

TITLE: BASIC UNDERSTANDING OF FREE AND OPEN-SOURCE SOFTWARE.

A) Describe Open-Source Software with Example.

Ans: Open source refers to an openly distributed program code (including codes that are free of charge) that can be utilized and modified by the end user without restriction. A good analogy would be that of a recipe. An open source recipe would be public: this means that anyone can know the ingredients and instructions, and even the recipe to improve the taste of the dish. If someone wants to know a recipe that isn't "open-source," they would have to pay a license to be able to use it. Furthermore, they wouldn't have permission to modify it, much less redistribute it.

examples of open-source software is:

- Mozilla's Firefox web browser
- Thunderbird email client
- PHP scripting language

B) Describe Free Source Software with Example.

Ans: "Free software" means software that respects users' freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software. Thus, "free software" is a matter of liberty, not price. To understand the concept, you should think of "free" as in "free speech," not as in "free beer." We sometimes call it "libre software," borrowing the French or Spanish word for "free" as in freedom, to show we do not mean the software is gratis.

examples of free-source software is:

- Linux kernel
- BSD and linux operating system
- MySQL relational database

C) Difference between Free and Open-Source Software.

Ans: Free Software:
"Free software" means software that respects users' freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software.

The term "free software" is sometimes misunderstood—it has nothing to do with price. It is about freedom.

Open Source Software:
Open Source Software is something which you can modify as per your needs, share with others without any licensing violation burden. When we say Open Source, source code of software is available publicly with Open Source licenses like GNU (GPL) which allows you to edit source code and distribute it. Read these licenses and you will realize that these licenses are created to help us.