Basic understanding on free and open source software:

A) describe open source software with example:

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. [1][2] 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. [3]

B) describe free source software with example:

The free software definition presents the criteria for whether a particular software program qualifies as free software. From time to time we revise this definition, to clarify it or to resolve questions about subtle issues. See the <u>History section</u> below for a list of changes that affect the definition of free software.

The four essential freedoms

A program is free software if the program's users have the four essential freedoms: [1]

- The freedom to run the program as you wish, for any purpose (freedom 0).
- The freedom to study how the program works, and change it so it does your computing as
 you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).

C) difference between free and open source software:

Free software: 1 Software is an important part of people's lives.

- 2 Software freedom translates to social freedom.
- 3 Freedom is a value that is more important than any economical advantage.
- 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.

Open source software: 1 Software is just software. There are no ethics associated directly to it.

- 2 Ethics are to be associated to the people not to the software.
- 3 Freedom is not an absolute concept. Freedom should be allowed, not imposed.

 4 Examples: Prime examples of open-source products are the Apache HTTP Server, the ecommerce 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.