Name: Vansh Nagda
Roll no:127
Class:FYBSCIT

Practical 3

Basic understanding on free and open source software

1) **Open source software:**
   The term open source means something that people can modify and share because which is publicly accessible.

   What is open source software?
   Open source software is software with source code that anyone can inspect, modify, and enhance.
   Source code is the part of software that most computer users don't ever see ,it's the code computer programmers can manipulate to control have a program or application behaves.program also have access to source code can change a program by adding to it changing it or fixing part of it which are not working properly.open source software typically includes a licence that allows programmer to modify the software to best fit their needs and control how the software can be distributed.

   Examples of Open Source Software are given below:
   1. Android
   2. Linux
   3. Mozilla Firefox
   4. VLC media
   5. Apache web server
   6. jQuery

   Is Open source software free?

   Open source software does not necessarily mean that executable software is given away for free. it means that its source code is available for free.

2) **Free software:**

Free software means software that respects users freedom and community.
Roughly it means that the user have the freedom to run, copy, distribute, study, change and improve the software. Thus, free software is a matter of liberty not price.
Although the term free software had already been used loosely in the past, Richard stallman is credited with time it to the sense and the discussion and starting the free software movement in 1983. For software under the pure view of copyright to be free it must be carry software licence whereby author grant users the aforementioned rights.

Example of free software are given below:

1. Linux kernel
2. BSD
3. C library
4. MySQL
5. Sendmail transport agent, etc

3) **Difference between Open Source and Free Software:**

Free software	Open source software
Software is an important part of people's lives	Software is just software. There are no ethics associated directly to it.
Software freedom translates to social freedom	Ethics are to be associated to the people not to the software
Freedom is a value that is more important than any economical advantage	Freedom is not an absolute concept. Freedom should be allowed, not imposed.
Example: Linux kernel, BSD and Linux operating system,C library, MySQL etc.	**Example**: Apache HTTP server, Mozilla Firefox, LibreOffice etc.