

Subject :- IT TOOLS

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Assignment :- I.

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Q17 Difference between open source and free source.

Ans

free Software	open Source Software.
1- free Software usually refers open source under GNU GPL license. Because the word free in English means cost the term open source was created.	your source code is accesible to anyone to read and modify and redistribute depending on license 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 people's lives.	Software is just software - There are no ethics associated directly to it.
3- Software freedom translate to social freedom	ethics are to be associated to the people not to the software.
4- users of free software may have access to and study the source code as part of their ability to modify it.	open source code can be used for studying and allows capables end users to adapt software to their personal needs.
5- freedom to run program for any purpose	It has distribution of license.
6- freedom to distribute copies of software	free distribution.
7- free software is a social movement.	open software is a development methodology.
8- free software focuses on providing a moral/ethical argument for open source.	open source tends to focus on providing an Economic/business argument for free software.
9- Examples :- linux kernel, the BSD and linux OS, the GNU compiler collection and C library.	Examples :- Apache HTTP server, the Ecommerce platform OS commerce, mozilla firefox.

Q2 Explain the significance of green computing.

Ans Green computing is the environmentally responsible and eco-friendly use of computers and their resources. In broader terms, it is also defined as the study of designing, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact. 'green computing' refers to the adoption of a sustainable business landscape in designing, manufacturing, use and disposal of various resources related to IT. Green computing is essentially an environmentally friendly use of IT technology to lessen the burden on the planet. As technology integrates seamlessly into various aspects of life, research into green computing requires catering to the specific and disparate needs of each sector. cloud computing and the resultant cloud data centres (CDC) enables storage of large data through virtualization of physical resources.

- Green use :- Minimizing the electricity consumption of computers and their peripheral devices and using them in an eco-friendly equipment.
- Green disposal :- Repurposing existing equipment or approx. disposing of, or recycling, unwanted electronic equipment.
- Green design :- Designing energy-efficient computers, servers, printers, projectors, and other digital devices.
- Green manufacturing :- Minimizing waste during the manufacturing of computers and other subsystems to reduce the environmental impact of these activities.

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Q3> What is github? Explain the advantages of using github. Give steps of creating and cloning repository on github.

Ans *What is github:-

GitHub, Inc, is a provider of internet hosting of software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and several collaboration features such as bug tracking, feature request, task management, continuous integration and wikis for every project.

* Advantages:-

- 1) It's free and it is open source:- github is completely free and you can use it without paying and since it is an open source you can download the source code and can make change as per the requirements.
- 2) It is fast:- Since most of the operations are performed locally, it allows huge benefit in terms of speed.
- 3) It provides good backup:- Here chance of losing data is very low as it provides the multiple copies of it.
- 4) Multiple developers can work:- github allows multiple developers to work on a single project at a time. It helps all the team members to work together on a single project at a time from different location.

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* Steps of creating and cloning repository.

• Creating repository.

Step 1:- login to github account.

Step 2:- click on + sign to create repository account created.

Step 3:- to create new repository → click on new repository.

Step 4:- create repository dialog box will appear.

Step 5:- give the repository name and click create repository button Repository created.

• Cloning repository.

TO clone repository, copy the link and share it.

Q4) Differentiate between Tools and Technologies.

Ans

A tool is generally a resource, or apparatus that is used to aid person in completing a task. A tool is a device or computer app that enables you do something. For example, a microscope or a modeling program. Techniques are essentially methods that the person uses in order to effectively complete a task. A technique is a process or procedure that you follow. For example there are guidelines for how to construct an effective scientific experiment such as you make sure the participants are unbiased.

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Q57 Explain the feature ~~of~~ and working of any tool used in online teaching and learning process.

Ans google calendar

* features :-

- 1-> The schedule view
- 2-> Schedule meeting rooms.
- 3-> Simplified appointment slots tool.
- 4-> let. your coworkers know when you'll be offline
- 5-> see more with a year view
- 6-> find anything with advanced search.
- 7-> track time with a world clock
- 8-> weather is missing! but you can bring it back.

* working :-

you can schedule your meeting agenda there by day wise and you can give links of scheduled meetings.