

## IT platforms, Tools and Practice

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Q.1) Differentiate between Open Source and Free source

Free Software	Open Source Software
1) Free Software means software that respects users' freedom and community available publicly	Open Source software means that the software is available publicly
2) Users have the freedom to run, copy, distribute, study, change and improve the software.	Users can modify as per their needs, share with others without any licensing violation burden.
3) Free software coder is allowed to specify certain conditions to enable the legal use and distribution of the software.	Open source coder is allowed to specify whether a user is allowed to redistribute the modified code or not.
4) All free softwares are open-source.	All open-source softwares are need not to be free.
5) Eg: Google Chrome, MySQL, C library etc.	Eg: Firefox, Linux, Python, etc.



2) Explain the significance of green computing.

- green computing is the environmentally responsible and eco friendly use of computers and their resources.
- In basic terms, green computing involves reducing the environmental impact of technology.
- green computing reduces the energy consumption which results into low carbon dioxide emission.
- We can also save money that was spent in the extra usage of energy and resources.
- It also applies changing government policy to encourage policy to encourage recycling.

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

- github is a website for developers and programmers to collaboratively work on code.
- The primary benefit of github is its version control system, which allows for seamless collaboration without compromising the integrity of the original project.
- Advantages of github are:-
  - \* It makes it easy to contribute to your open source projects.
  - \* Documentation
  - \* Showcase your work.
  - \* github is a repository
  - \* Tracks changes in your code across versions.



### Steps for creating repository:-

- \* In the upper-right corner of any page, use the drop-down menu and select New repository
- \* Type a short and memorable name for your repository
- \* Add description to your repository, if needed.
- \* Choose repository visibility
- \* Initialize the repository with README
- \* Click create repository.

### For ~~new~~ cloning repository:

- \* Click open with GitHub desktop to clone and open the repository with GitHub.
- \* Follow the prompts to complete the clone.

### 4) Differentiate between tools and technologies.

Tools	Technologies
1) Tools are extensions of our hands, as much as hammers or knives for work	Technologies are systems imposed by the organization that often constrain, disempower knowledge
2) Many tools, equipments, softwares, programs combined together <del>to</del> and <del>is</del> are referred to a technology	Technology is combination of small tools on a large scale.
3) We can buy tools that implement or exploit technology	We cannot buy technology, but definitely can invest in it.
4) Eg: DBMS, SQL server, DB2 are tools that support technology	Eg: DBMS (Data Base Management System) is a technology.



5). Explain the feature and working of Zoom Online ~~teaching~~ App.

→ Zoom is a cloud-based video ~~and~~ conferencing service you can use to virtually meet with others.

→ It lets us conduct live chats either by video or audio-only or both, and record those sessions to view later.

→ Features of Zoom are :-

\* Screen and Application sharing - Presenters can share their whole desktop or individual applications.

\* Dynamic voice detection - Primary camera view will automatically toggle to active speaker.

\* Mobile devices - It supports both ios and android.

\* Large room and webinar - Zoom sessions can be expanded to allow larger groups, upto 500 interactive participants or 10,000 viewers via Zoom Webinars.

\* Recording - Record meetings locally and upload whenever we need to.

→ Working of Zoom :-

\* Install the Zoom App from windows using PC or play store while using android or ios.

\* Open the Zoom App

\* Join a meeting using one of these methods:  
Tap join a Meeting if you want to join without signing in.

\* Enter the meeting ID Number and your display Name

\* Select if you would like to connect audio and/or video and tap join Meeting.