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IT TOOLS

ASSIGNMENT-1

Q1. Difference between open source and free source

Ans	Free Source	Open source
1)	Free source usually refers open source ~~Because~~ under GNU & GPL license Because the word free in english ~~mens~~ means cost the terms open source was created	Your source code is ~~ac~~accesiable to anyone to read and modify and redistribte depending on license conditions. ~~pupb~~ publishing source code online without 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 ~~softw~~ software. There are no ethics associated directly to it
3)	Software freedom translate to social freedom.	Ethic are to be associated to 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 allow capables and users to adopt software to their personal needs.
5)	Freedom to run program for any purpose	It has distribution of license.
6)	Freedom to distribute copes of software	Free distribution
7)	Free software foruses on providing a ~~more~~ moral/ ethical argument for open source	Open ~~so~~source tends to focus on providing an economic/business arguments for free software
8)	Free ~~source~~ software is a social movement	Open software is a ~~de~~ development methodology.

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Q2) Explain the significance of Green computing

Ans Green computing is the ~~envion~~ environmentally responsible and eco-friendly use of computer and their resources In broaded terms, it can is also defined as the study of designing, engineering, manufacturing, using and dispasting of computing device in a way to reduce their environmental impact 'green computing' refers to the adoption of a sustainable business landscape in designing manufacturing use and disposal of various ~~or~~ resources related to IT. Green computing is essentially an environmentally friendly use of IT technology integrate to lessen the burden on the plant. As technology integrate seamlessly into various aspects of life, research into green computing requires catering to the specific and disparate needs of each sector cloud computing the resultant cloud data centres (DC) ~~strong~~ enable strong of large data through virtualization of physical resource

- Green use ÷ Minimizing the electricity ~~comsupt~~ comsumption of computing and their peripheral devices and using them in an eco-friendly
- Green disposal ÷ Repurposing existing equipment as appropriate disposing of or recycling, unwanted electronic equipment
- Green design ÷ Designing energy-efficient computers, servers printer, projectors and other digital devices.
- Green manufacturing ÷ Minimizing waste during the manufacturing of computers and other subsystems to reduces the environment 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 provide access control and several collaboration features such as bug tracking, features request, task managment, continous 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 your can download the source code and can make change as per the requirement.

2) It is fast :- Since most of the operations are preferrence locally, It allows bugs benefits 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 member to work together on a single project at a time from different location.

* Steps of creating and cloning respository.

• Creating respository

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.

Q.4 Differentiate between Tools and ~~Techo~~ Technologies.

Ans A tools is generally a resource, as apparatus that is used to aid person is completing task. A tools is a device or computer app that enable ~~you~~ you do something for example a microscope or a modeling program. Techiques are essentially method that the person uses in orders to effectively complete a task. A technique is a process or procedure that you follow. For example :- there are guidelines for how to construct no effective ~~scientic~~ experiment ~~as~~ such as you ~~ma~~ sure the participants are unbased.

Q.5 Explain the feature and working of any tools use in online teaching and learning process.

Ans

Google meet

Features :-

1) Two-way and multi-way audio and ~~vie~~ video calls w a resolution up to 720p

2) Call encryption between all users

3> Ability to ~~call~~ call into meeting using a dial-in number in the US

4> Video filters, effect and augmented reality masks.

5> Ability to join meeting through a web browser or through Android or iOS apps.

Working Process

a) Go to meet.google.com
b) Click start new meeting, or enter your meeting code.
c) Choose the Google account you ~~meetin~~ want to us
d) Click Join meeting.