IT TOOLS ASSIGNMENT

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1) Explain Green Computing with its advantages.

ANS: Green Computing refers to durable computing of the environment. This reduces the use of electricity as well as power and reduces environmental waste when we are using a computer. It Computing has the same goal with green chemistry, which is now the life of the product and makes the product more energy efficient, the abandoned product and factory waste are more easily recycled and to be biodegradable, less Dangerous Use Content.

ADVANTAGES:

I) Lessened vitality utilization by green registering advances converts into low carbon dioxide emanations, which emerge because of the absence of petroleum derivatives utilized as a part of intensity plants and transportation.

II) Conservation of resources means less energy is required to produce, use and dispose of products.

III) Saving energy and resources saves money.

IV) Green processing includes changing government arrangement to empower reusing by people and organizations and to lessen vitality utilization.

V) Reduce existing exposure in laptops such as chemical, cancer, nerve damage, and is known due to immune responses in humans.

2) What is E-waste? What can be done to reduce the impact of E-waste.

ANS: Electronic waste or e-waste describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution. Electronic scrap components, such as CPUs, contain potentially harmful materials such as lead, cadmium, beryllium, or brominated flame retardants. Recycling and disposal of e-waste may involve significant risk to health of workers and their communities.

METHOD TO REDUSE THE IMPECT OF E-WASTE:

I) Sell old Electronics: One of the best and easiest methods of reducing the electronic waste footprint is to sell or donate your electronic gadgets to those in need.

II) Donate old Electronics: Donating electronics to the needy is also a practice followed by many. It not only gives the gadget a new life, but also makes you feel good about yourself.

III) Recycle and Dispose of E-Waste Properly: Improperly disposed e-waste is becoming more and more hazardous, especially as the sheer volume of our e-waste increases. For this reason, large brands like Apple, Samsung, and other companies have started giving options to its customers to recycle old electronics. Sometimes, you may even get financial compensation for recycling your old devices!

IV) Maintain your Electronics: One of the best ways to save your money and reduce e-waste is to keep your electronics well-maintained, to increase its life. One of the best ways to save your money and reduce e-waste is to keep your electronics well-maintained, to increase its life.

V) Learn to Repair Broken Electronics at Home: Some brands of modern electronic devices are only meant to last for a few years under regular use before failing. However, along with maintaining your electronic devices by cleaning them regularly to help them last for longer, you could also learn how to fix hardware problems on your device.

3) What are the benefits of going paperless.

ANS: I) Saves Time: Time spent filing, organizing, and searching for paper documents is time that could be spent on more productive tasks. Digitized documents are stored in a central repository, which is basically a well-organized digital filing cabinet where all of your documents live.

II) Saves Space: Paper takes up a lot of space – as do filing cabinets and space to store those filing cabinets. Books and bookshelves are bulky, too. What's worse, paper keeps piling up, oftentimes accumulating more quickly than it can be sorted and organized. This is particularly true of industries that have long mandatory retention periods for paperwork like the financial industry.

III) Saves Money: Going digital improves process efficiency, saving you money. Paperless offices can process a much larger volume of paperwork compared to traditional offices in the same amount of time. Further, digitization reduces money spent on paper, printers, ink, postage, office space for files and employee time to manage paperwork. The savings on employee time become especially valuable in regards to regulatory audits and repetitive, high-volume tasks like expense reimbursements.

IV) Promotes the Environment: Manufacturing paper products produce greenhouse

gases, causing deforestation and global warming. Recycling can offset some of the environmental impact, but not by much. Most paper eventually ends up in a landfill.

V) Boosts Security: Physical documents are hard to track – reams of paper can get lost, misfiled or destroyed without anyone noticing. It can also be difficult to monitor the access, printing and copying of sensitive files. Document management software has advanced security capabilities that can tackle these challenges.

4) What is Github? Give advantages of using Github.

ANS: GitHub, Inc. is a provider of Internet hosting for 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 requests, task management, continuous integration and wikis for every project. Headquartered in California, it has been a subsidiary of Microsoft since 2018.GitHub offers its basic services free of charge. Its more advanced professional and enterprise services are commercial. Free GitHub accounts are commonly used to host open-source projects. As of January 2019, GitHub offers unlimited private repositories to all plans, including free accounts, but allowed only up to three collaborators per repository for free. Starting from April 15, 2020, the free plan allows unlimited collaborators, but restricts private repositories to 2,000 minutes of GitHub Actions per month. As of January 2020, GitHub reports having over 40 million users and more than 190 million repositories(including at least 28 million public repositories),making it the largest host of source code in the world.

ADVANTAGES:

I) It makes it easy to contribute to your open source projects: To be honest, nearly every open-source project uses GitHub to manage their project. Using GitHub is free if your project is open source and includes a wiki and issue tracker that makes it easy to include more in-depth documentation and get feedback about your project. If you want to contribute, you just fork a project, make your changes and then send them a pull request using GitHub web interface.

II) Documentation: By using GitHub, you make it easier to get excellent documentation. Their help section and guides have articles for nearly any topic related to git that you can think of.

III) Showcase your work: Are you a developer and wishes to attract recruiters? GitHub is the best tool you can rely on for this. Today, when searching for new recruits for their project, most companies look into the GitHub profiles. If your profile is available, you will have a higher chance of being recruited even if you are not from a great university or college.

IV) Markdown: Markdown allows you to use a simple text editor to write formatted documents. GitHub has revolutionized writing by channeling everything through Markdown: from the issue tracker, user comments, everything. With so many other programming languages to learn for setting up projects, it's really a big benefit to have your content inputted in a format without having to learn yet another system.

V) GitHub is a repository: This was already mentioned before, but it's important to note, GitHub is a repository. What this means that it allows your work to get out there in front of the public. Moreover, GitHub is one of the largest coding communities around right now, so it's wide exposure for your project.

5) Write a program using PEP8 rules.

ANS: PEP 8 suggests lines should be limited to 79 characters. This is because it allows you to have multiple files open next to one another, while also avoiding line wrapping. Of course, keeping statements to 79 characters or less is not always possible. PEP 8 outlines ways to allow statements to run over several lines.

```
[ ]

x = 5
y = "John"
print(x)
print(y)
x, y, z = "Orange", "Banana", "Cherry"
print(x)
print(y)
print(z)

5
John
Orange
Banana
Cherry
```