

IT TOOLS

Assignment

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. Saving energy and resources saves money
- ii. Green computing technique reduces the energy consumption which results into low carbon dioxide emission.
- iii. Reduce existing exposure in laptops such as chemical, cancer, nerve damage, and is known due to immune responses in humans.

Disadvantages:

- i. It can really be quite expensive
- ii. Some green computers maybe very low
- iii. Rapid technology change

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

Ans: E-waste, or electronic waste, encompasses electrical and electronic equipment that's outdated, unwanted, or broken. That means everything from smartphones to end-of-life refrigerators. Basically, anything that runs on electricity that you've decided to get rid of. Globally, we only recycle 10% of our e-waste, a number that's as shocking as it is depressing. As for the 90% we don't recycle, it ends up getting landfilled, incinerated, or illegally traded.

Reduce: The easiest way to solve the e-waste crisis is to produce less e-waste. I know, easier said than done. Companies are constantly rolling out new products—like Apple, for instance, with its iPhone. Newer products look and function better than their predecessors, but novelty comes at a price. Instead of buying that flashy new gadget, stick to what you've got. Also, by taking care of your electronics you can ensure that they last longer. When you don't have to replace them as often, you end up saving money.

3. What are the benefits of going paperless?

Ans:

- i. Document organization: - The ability to quickly locate and disseminate information may enhance your company's efficiency and professional image. Spending time hunting through piles of paper slows down response time in an age when most answers are only a few keystrokes away. By scanning electronic copies of receipts and invoices, documents can be sorted, filed, and organized for quick retrieval when it matters most.
- ii. Client communication is faster and less expensive: - By maintaining a customer email list, you can instantaneously communicate sales and special offers without incurring postage and printing expenses. With the advanced technology of smart devices, most people have immediate access to emails. While it increases efficiency, electronic communication also decreases storage costs as the amount of paper copies littering your office will begin to dwindle.
- iii. Paperless files are easily saved and retrieved on the go: - With the advent of photo-scanning apps, business travellers can easily back up expense reports without needing to save a pile of papers to bring back to the office. Electronic files can also be shared with co-workers over a network or via email. Shifting to paperless documentation also makes the transportation of data more efficient, without the need for cumbersome fax machines or document couriers.
- iv. Automatic backups: - When you accidentally throw out an important paper, it's usually gone forever. However, maintaining electronic files allows for multiple backup points. Data can be saved on flash drives, in the cloud, or to an external hard drive. For vitally important financial data cloud-based accounting systems provide automatic backups on a pre-scheduled basis, which eliminates the need for small business owners to set aside time for manual backups.
- v. Data security: - Customers will always be concerned about privacy and data protection, which requires companies to respond by implementing proper data security procedures beyond locked filing cabinets and paper shredders. Many of today's cloud-based accounting systems offer bank-level data security to protect financial and customer information, which is more than most small companies with limited technology staff can afford to build in-house

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

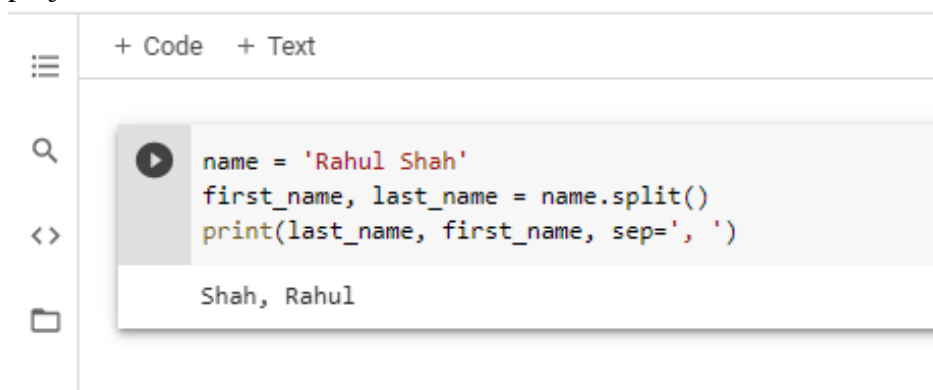
Ans: - At a high level, GitHub is a website and cloud-based service that helps developers store and manage their code, as well as track and control changes to their code. GitHub is a for-profit company that offers a cloud-based Git repository hosting service.

Advantages:

- i. It's free and it is open source: - As discussed earlier, 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 changes as per the requirements.
- ii. It is fast: - Since most of the operations are preferred locally, it allows huge benefit in terms of speed.
- iii. It provides good backup: - Here chance of losing data is very low as it provides the multiple copies of it.
- iv. 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 at a time from different locations.

5. Write a program using PEP8 rules.

Ans: PEP-8 is an acronym for Python Enhancement Protocol 8 which is a set guideline publish for python programming language. PEP-8 guidelines may seem pedantic but following them can improve your code especially when it comes to sharing your code, whether it is your potential employer or open-source contributor or during group projects.



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+ Code + Text

name = 'Rahul Shah'
first_name, last_name = name.split()
print(last_name, first_name, sep=', ')

Shah, Rahul
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