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## Assignment 1

### 1. Explain Green Computing with its advantages.

**Answer :-** 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, manufacturing/engineering, using and disposing of computing devices in a way that reduces their environmental impact.

#### **Advantages of Green Computing:-**

1. Sustainable computing means reduces energy consumption that leads to reduces GHG emissions and fossil fuel.
2. Green computing is cost-effective due to less energy usage & cooling requirements.
3. Sustainable IT helps in the preservation and effective utilization of natural resources.
4. It encourages reuse and recyclability that will result in a lesser number of electronic wastes.
5. Green IT uses non-toxic components which do not pose any health hazard to the end-users.
6. It causes a considerable reduction in the quantity of heat produced from computing devices.
7. Sustainable computing inspires people to reduce, reuse, and recycle.

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

**Answer:-**E-waste is a popular, informal name for electronic products nearing the end of their “useful life.” Computers, televisions, VCRs, stereos, copiers, and fax machines are common electronic products. Many of these products can be reused, refurbished, or recycled.

- 1) Reuse as often as possible. If you have parts and equipment that are still working, try repairing the electronic device before getting a new one. And if the device is beyond the point of being repaired, then recycle it.
- 2) Look for an environmentally friendly label. For example, see if the products you buy are labeled Energy Star, or have been certified by the Electronic Product Environmental Assessment Tool.
- 3) Consider limiting the number of electronics you own. If you don’t really need an extra gadget, look for devices that have multiple functions.
- 4) Teach kids about e-waste. Children are our future, and it helps if we can instill within them at a young age a commit to e-waste recycling.
- 5) Maintain what you have. Small moves help keep what you have working longer. Clean your computer often and don’t overcharge your battery so you can improve your battery’s overall lifespan.

### **3. What are the benefits of going paperless.**

**Answer:-** There are five benefits of going paperless :

- 1) **ROI:-** Many people think the switch to paperless will cost more, in terms of training, hardware and software than continuing to be paper-based. And, while expenses do exist, the return on investment is enormous. For some businesses, the switch to paperless can pay for itself within a matter of weeks or months.
- 2) **Labour Savings:-** Paper is extremely time-consuming to work with as it requires a great deal of time and labour to organize and retrieve. On average, office staff spend about one hour per month searching for and replacing files. If this is the case at your company, the move to paperless could pay for itself within a month.
- 3) **Printing Costs:-** Printing hard copies of business documents requires the purchase of paper, toner, ink, the printers and their maintenance. In most organizations, going paperless can save more than \$500 per person per year in these supplies.
- 4) **Photocopier Costs:-** Photocopiers are very expensive to purchase and maintain. By going paperless, employees can access and edit a digital document then electronically send it to a co-worker or save it. These documents can also be accessed simultaneously, eliminating the need for multiple copies.

- 5) **.Storage Costs:-** Searching for files take up space and many organizations are forced give up their office space to file cabinets and boxes of documents. Paperless companies greatly minimize their need for storage space as a single hard drive, or the Cloud, can store millions of documents.

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

Answer :-GitHub is a hosting site where developers and programmers can upload the code they create and work collaboratively to improve it. A defining feature of GitHub is its robust version control system. The version control lets coders tweak software—potentially fixing bugs or improving efficiency—without affecting the software itself or risking the experience of any current users. Proposed changes can be easily merged into the live software after the proposals are reviewed and approved.

GitHub can integrate with common platforms and services such as Amazon, Google Cloud, and Code Climate. It can highlight syntax in more than 200 different programming languages.

##### **Advantages of using GitHub:-**

- 1) 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.

- 2) **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.

- 3) 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.
- 4) 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.
- 5) 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.**

Code :-

```
1 b = [10 , 11 , 13, 16 , 17]
2 a = int(input( "Enter your number : "))
3 if a in b :
4     print("congrates, you got the number.")
5 else:
6     print("better luck next time.")
```

Output:-

```
Enter your number : 2
better luck next time.

[Program finished]
```