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Assignment

## 1. Explain Green Computing with its advantages.

Answer :- Green Computing (Also known as green It) is the study and practice of IT Green Computing (Also known as green It) is the study and practice of IT environment.
It will be more important in the future to practice green computing due to numerous environmental problems caused by the computer.

Advantages of Green Computing :-

1) Energy Savings :-Apart from computers, there are different kinds of electrical appliances that consume significant amount of energy. This creates a demand for the energy production. Therefore, it is necessary to decrease this energy crisis as much as possible for making a more eco-friendly environment. Green computing makes sure that very less amount of energy is consumed by the IT processes. Thus, this can save plenty amount of energy overtime.

2) Cost Savings:-Green computing is highly cost effective that helps people save money. Since lots of energies are saved when using a green computing solution, it also substantially leads to financial gains. Even though green computing is with high upfront costs, still it is cost effective in the long run.

3) Recycling Process :- Green computing encourages recycling process by reusing and recycling electronic wastes. Most parts of the computer are constructed using eco-friendly materials instead of plastic so that it can have less environmental impacts. This makes all the electronic wastes to get separated efficiently. Hence by implementing green computing strategies, companies overall can improve their recycling process.

4) Brand Strengthen :- Some customers are so well concerned about the environment that they are solely preferring to go with companies that support green computing. Green computing is capable of creating public images so that they can strengthen their brand and market position all around the world.
5) Less Pollution :- Through conventional computing, lots of pollution issues take place in the environment. For an example, if not properly recycled all the electronic wastes from the computer may end up circulating on land. Thus, leading to soil as well as water pollution. By using green computing, the users can minimize the impact created by pollution at least to some extent.

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

Answer:- E-waste is electronic products that are unwanted, not working, and nearing or at the end of their "useful life." Computers, televisions, VCRs, stereos, copiers, and fax machines are everyday electronic products.

We also have something else today: a term for this issue. After several terms got suggested, including "Digital rubbish," a consensus formed around the simple word "e-waste."

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) Educate yourself on what gets put into your electronics. Knowledge is power. Doing some research about the raw materials being used to manufacture your mobile phone or laptop helps you understand how harmful those materials and toxins can be if they're tossed into a landfill. The more you educate yourself the more you can purchase items that won't be harmful to the environment.

3) 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.

4) Consider limiting the number of electronics you own. If you don't really need an extra gadget, look for devices that have multiple functions.

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

Answer :- There are five benefits of going paperless :

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

2) Saves space:- Paper takes up a lot of space – as do filling cabinets and space to store those filling cabinets. Books and bookshelves are bulky. What's worse, paper keep piling up, oftentimes accumulating more quickly than it can be stored and organised.

3) Saves Money:- Going digital improves process efficiency saving you money. Paperless offices can process a much longer volume of paper work compared to traditional offices in the same amount of time.

4) Eases Transfer of information:- Documents management software offers a simple process for saving documents. The software easily compiles digital documents using scanners.

5) 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.

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

Answer :- GitHub can be divided into the Git, and the Hub. The service includes access controls as well as a number of collaboration features like tools for basic task management and for all projects you handle. GitHub hosts your source code projects in a variety of different programming languages and keeps track of the various changes made to every iteration. So, the “Git” implies the version control system; a tool which allows developers to keep track of the constant revisions to their code. The “hub” is the community of like-minded individuals who participate.

**Advantages of using Github:-**

1) 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.

2) Showcase your work :- Are you a developer who 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.

3) Markdown :- Markdown allows you to use a simple text editor to write formatted documents. GitHub has revolutionized writing by channeling everything through Markdown: 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.

4) 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) Track changes in your code across versions :- When multiple people collaborate on a project, it's hard to keep track revisions—who changed what, when, and where those files are stored. GitHub takes care of this problem by keeping track of all the changes that have been pushed to the repository. Much like using Microsoft Word or Google Drive, you can have a version history of your code so that previous versions are not lost with every iteration.

6) Integration option :- GitHub can integrate with common platforms such as Amazon and Google Cloud, services such as Code Climate to track your feedback, and can highlight syntax in over 200 different programming languages.

## 5. Write a program using PEP8 rules.

Code :-

```
1 colors = ["red","green","yellow"]
2 ucolor = input("Enter your color : ")
3 if ucolor in colors:
4   print('your favourite color is available.')
5 else:
6   print('sprry , your favourite color is
unavailable.')
```

Output:-

```
Enter your color : yellow
your favourite color is available.

[Program finished]
```