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IT TOOLS

Assignment 1

1. Explain Green Computing with its advantages.

Answer :- Green Computing or Green IT is an eco-friendly approach that starts with material selection & design to manufacturing until usage and disposal.

Now a days, everyone is using computing device in one or another form and inefficient disposal of obsolete IT equipment causes huge E-Waste generation which is harmful to the Environment.

Advantages of Green Computing.

- 1) Sustainable computing means reduced energy consumption that leads to reduce GHG emissions and fossil fuel usage.
- 2) Conserving resources means less energy is required to produce, use, and disposal of product.
- 3) Saving energy and resources saves money.
- 4) Green computing is cost-effective due to less energy usage & cooling requirements.
- 5) Sustainable IT helps in the preservation and effective utilization of natural resources.
- 6) Green IT uses non-toxic components which do not pose any health hazard to the end users.
- 7) It causes a considerable reduction in the quantity of heat produced from the computing devices.
- 8) Sustainable computing inspires people to Reduce, Reuse and Recycle.
- 9) Green IT implementation helps in improving the public image of an individual or an organization.
- 10) Green computing even includes changing government policy to encourage recycling and lowering energy use by individuals and businesses.
- 11) Reduce the risk existing in the laptop such as chemical known to cause cancer, nerve damage and immune reactions in humans.

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

Answer:- Electronic waste also known as e-waste. It is discarded electronic or electronic devices. E waste is any electrical or electronic equipments that's been discarded. This includes working and broken items that are thrown in the garbage Or donate to a charity

reseller like goodwill. Often if the item goes unsold in the store it will be thrown away. Be a good consumer. Do some research when you're ready to buy a new product. Make sure it's one that won't break easily or become damaged shortly after you purchase it. In other words, look for products likely to have a much longer lifespan so you won't need to replace it within a few years, or even months. It's known that this is a common practice in the electronics industry; to make products with shorter life spans so more money can be earned in the long run when they break or malfunction.

- 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 filing cabinet where all of your documents live.
- 2) 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. 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:-

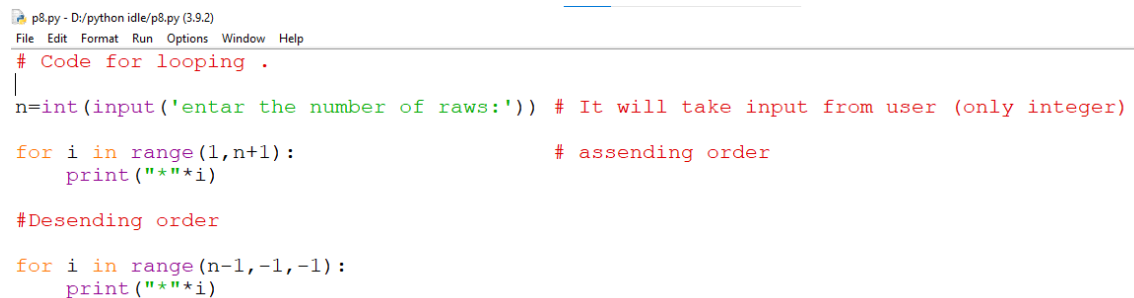
- 1) Documentation :- By using GitHub, you make it easier to get excellent documentation. Their help section and guides have articles for nearly any topic related to git that you can think of.
- 2) Showcase your work :- Are you a developer who wishes to attract recruiters? GitHub is the best tool you 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.

Answer :-

Code :-



```
p8.py - D:/python idle/p8.py (3.9.2)
File Edit Format Run Options Window Help
# Code for looping .
|
n=int(input('enter the number of rows:')) # It will take input from user (only integer)

for i in range(1,n+1):                      # assending order
    print(" "*i)

#Desending order

for i in range(n-1,-1,-1):
    print(" "*i)
```

Output :-

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entar the number of raws:6
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