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IT TOOLS ASSIGNMENT

1) Explain Green computing with its advantages.
   - 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, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact.
   - Many IT manufacturers and vendors are continuously investing in designing energy-efficient computing devices, reducing the use of dangerous materials and encouraging the recyclability of digital devices.
   - Green Computing is also known as Green Information Technology (Green IT)
   - Advantages of Green Computing are:
   1. Energy Savings.
   Apart from computers, there are different kinds of electrical appliances that consume significant amounts of energy. This creates a demand for 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.

   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.

   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.

   4. Less Pollution
   Through conventional computing, lots of pollution issues take place in the environment. For 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.

Electronic waste or e-waste is the 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.

Follow the measures to reduce the impact of E-waste :
- Recycle and Dispose of E-Waste Properly
- Maintain your Electronics
- Store Data Online
- Buy Energy Star Rated Electronics

3) What are the benefits of going paperless?

Save time :
Time spent filing, organizing, and searching for paper documents is time that could be spent on more productive tasks. When the documents will be stored in a Repository it will be well organised.

Save space :
Paper takes up a lot of space and it can create lots of shelves which can occupy Space in offices. Digitizing files allows you to store all documents either on an on-premises server or in the cloud. Digital file folders in a repository require much less space than a physical records archive.

Save Money:
Going digital can improve 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.

Saves 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. Further, ink and toners contain volatile compounds and non-renewable substances which are damaging to the environment. It is much more sustainable to simply reduce paper use altogether by switching to a paperless.

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

GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere. Git simplifies the process of working with other people and makes it easy to collaborate on projects. Team members can work on files and easily merge their changes in with the master branch of the project.

Advantages of using Github are :
- It makes it easy to contribute to your open source projects
- Track changes in your code across versions
- Documentation - using GitHub, you make it easier to get excellent documentation.
- Collaboration - many can work on the project without sharing the same space physically.

5) Write a program using PEP8 rules.

```python
#Input
P = input("\n Enter the principal amount: ")
T = input("\n Enter the time: ")
R = input("\n Enter the rate: ")
#Process
Si = (int(P) *
      float(T) *
      float(R) ) /100
Ci = int(P) *(((1 + float(R)/100) **
             int(T)) - 1)
#Output
print("\n Simple_Interest = ",Si)
print("\n Compound_Interest = ",Ci)
```

Output:

```
Enter the principal amount: 200

Enter the time: 3

Enter the rate: 6

Simple Interest =  36.0

Compound Interest =  38.20320000000002
>>> |
```