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IT-TOOLS ASSIGNMENT

1) What is green computing? Advantages of green computing are.

Green computing which also can be called as green technology, in which we use computers and its related other sources such as monitors, printers etc in a very efficient manner which has less impact on the environment. Green computing is about eco-friendly use of computers. Nowadays, everyone is using computing devices in one or another form and inefficient disposal of IT equipment can cause huge e-waste which is harmful to the environment. IT affects our environment in many different ways.

Advantages:

- Conservation of resources means less energy is required to produce, use and dispose of products.
- Saving energy and resources saves money.
- Green processing includes changing government arrangements to empower reusing by people and organizations and to lessen vitality utilization.
- Reduce existing exposure in laptops such as chemical,cancer,nerve damage, and is known due to immune response in humans.

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

E-waste is any electrical or electronic equipment that's been discarded. This includes working and breaking both items that are thrown in the garbage or donated to a charity reseller if the item goes unsold in the store it will be thrown away. E-waste is dangerous due to toxic chemicals that naturally leach from the metals inside when buried. Some ways to reduce E-waste is:

- Before buying a brand-new PC or some device, upgrade the software and the hardware of your current device many computers have memory and performance enhancing features added to them. This will Prevent you from throwing the device away and might get useful for you in future.
- Instead of throwing the devices away before buying a new device, sell it to a needy who would use it and prevent it from being e-waste.
- Spread the word among your circle and ask them to do the same so that more people are aware of the harm of e-waste

3)What are the benefits of going paperless?

Firstly, going paperless will help the environment heal, by reducing air pollution, reducing deforestation, protecting the environment should be a worldwide priority by now for ever citizen, you could read newspapers online, if there is no sale there won't be any production. Going paperless also has another benefit that all the documents that you have could be stored online and you can have it on the go without carrying loads of paper everywhere. And because of that you can have automatic backup in your device for example if you have an important paper but you accidentally threw it away or if it got damaged, you'll have a copy of it online or simply on your laptop. Going paperless would help office workers save more money over the paper printing that is required in the office, the more documents the more chaos but if all the documents are saved in the computer it will be easy to organise the documents.

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

GitHub is a code sharing and social networking site for programmers. It is an open-source project started by Linux creator Linus Torvalds. It is a cloud-based tool so the code becomes more visible across the organization, and anybody could contribute to it now. It allows collaborators with any developers all over the world.

Advantages:

- GitHub is free for all the programmers.
- It is fast
- Provides good backup
- Multiple developers can work together.

5) Write a program using PEP8 rules.

The screenshot shows a Python code editor interface with a dark theme. At the top, there's a toolbar with icons for 'Welcome', 'g.py', and a close button. Below the toolbar is the code editor area containing a script named 'g.py'. The code is as follows:

```
1  # Python program to find the
2  # factorial of a number provided by the user
3  # change the value for a diffrent result
4  #num = 7
5  # uncomment to take input from the user
6  num = int(input("Enter a number: "))
7  factorial = 1
8  # check if number is negative, positive or zero
9  if num < 0:
10     print("Sorry, factorial does not exist for negative numbers")
11 elif num == 0:
12     print("The Factorial of 0 is 1")
13 else:
14     for i in range(1,num+1):
15         factorial = factorial*i
16     print("The factorial of",num,"is",factorial)
```

Below the code editor is a navigation bar with tabs: PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE. The TERMINAL tab is currently selected. The terminal window displays the following session:

```
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\College\Study\I.T> & "C:/Program Files/Python39/python.exe" d:/College/Study/I.T/g.py
File "d:/College/Study/I.T/g.py", line 11
    else num == 0:
           ^
SyntaxError: invalid syntax
PS D:\College\Study\I.T> & "C:/Program Files/Python39/python.exe" d:/College/Study/I.T/g.py
Enter a number: 4
The factorial of 4 is 24
PS D:\College\Study\I.T>
```