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ASSIGNMENT

1) Explain Green Computing with its advantages.

Green computing sometimes also called Green Technology. In the green computing we use computer and its related other resources such as monitor, printer, hard disk, floppy disk, networking in very efficiently manner which has less impact on the environment. Green computing is about eco-friendly use of computer. Green computing is important for all type of system. It is important for handheld system to large scale data centre. Many IT companies have been start the use of green computing to reduce the environment impact of their IT operations. Green computing is the emerging practice of using computing and information technology resources more efficiently while maintaining or improving overall performance. The concept identifies the barriers and benefits of green computing

ADVANTAGES OF GREEN COMPUTING

1. Green computing technique reduces the energy consumption which results into low carbon dioxide emission.
2. By using green computing techniques we can also save money that was spent in extra usage of energy and resources.
3. Green computing also applies changing government policy to encourage recycling.
4. Green computing also removes the risk which is existing in the laptop such as chemical known to cause cancer or nerve damage etc.
5. Use preserve resources which use less energy to produce use and dispose of product.

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

Electronic waste or e-waste describes 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.

Following can be done to reduce the impact of E-waste.

- 1.Re-evaluate. Do you really need that extra gadget? Try finding one device with multiple functions.

2. Extend the life of your electronics. Buy a case, keep your device clean, and avoid overcharging the battery.

3. Buy environmentally friendly electronics. Look for products labeled Energy Star or certified by the Electronic Product Environmental Assessment Tool (EPEAT).

4. Donate used electronics to social programs—and help victims of domestic violence, children safety initiatives, environmental causes, and more. Ask your student REP for a postage paid mailer for your cell phone or ink cartridge. For each item received, the World Wildlife Fund will receive one dollar.

5. Reuse large electronics.

6. Recycle electronics and batteries in e-waste recycling bins located around campus. Large electronics can go in the larger bins found in your building.

3) What are the benefits of going paperless.

Benefits of going paperless are as follows

1. Document organization

The ability to quickly locate and disseminate information may enhance your company's efficiency and professional image. Spending time hunting through piles of paper slows down response time in an age when most answers are only a few keystrokes away. By scanning electronic copies of receipts and invoices, documents can be sorted, filed, and organized for quick retrieval when it matters most.

2. Client communication is faster and less expensive

By maintaining a customer email list, you can instantaneously communicate sales and special offers without incurring postage and printing expenses. With the advanced technology of smart devices, most people have immediate access to emails. While it increases efficiency, electronic communication also decreases storage costs as the amount of paper copies littering your office will begin to dwindle.

3. Paperless files are easily saved and retrieved on the go

With the advent of photo-scanning apps, business travelers can easily back up expense reports without needing to save a pile of papers to bring back to the office. Electronic files can also be shared with coworkers over a network or via email. Shifting to paperless documentation also makes the transportation of data more efficient, without the need for cumbersome fax machines or document couriers.

4. Automatic backups

When you accidentally throw out an important paper, it's usually gone forever. However, maintaining electronic files allows for multiple backup points. Data can be saved on flash drives, in the cloud, or to an external hard drive. For vitally important financial data, cloud-based accounting systems provide automatic backups on a pre-scheduled basis, which eliminates the need for small business owners to set aside time for manual backups.

5. Data security

Customers will always be concerned about privacy and data protection, which requires companies to respond by implementing proper data security procedures beyond locked filing cabinets and paper shredders. Many of today's cloud-based accounting systems offer bank-level data security to protect financial and customer information, which is more than most small companies with limited technology staff can afford to build in-house.

6. Environmental friendliness

According to the Environmental Paper Network's most recent State of the Paper Industry report, paper usage in North America is decreasing while the amount of paper recovered for recycling is increasing. Companies are striving to recycle, yet office copy paper alone still accounts for over 20 percent of the total paper usage in the United States. But being green is more than just reducing paper production. A paperless environment may also mean less energy consumption. Small businesses use less energy when printers, faxes, and copiers are inactive.

7. Financial benefits

The savings of going paperless extends beyond just the cost of the paper, which can be substantial. The cost of other office supplies like ink cartridges also decreases. Additional upgrades or replacements to expensive office equipment such as copiers and fax machines may also decrease in a paperless office.

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

Github:-

GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. ... Free GitHub accounts are commonly used to host open-source projects.

Advantages of using Github are as follows

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.

6. 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.

7. Integration options

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.

This program calculates the whole table requiring an input number of which table is calculated.

Code:-

```
list = [1,2,3,4,5,6]

count = 0

for n in list:

    if n%2== 0:

        print(n, " is an even number.")

        count+=1

        print("Count incremented '+1':- ", count)

    else:

        print(n, " is a odd number.")

print("Total number of even numbers:- " +str(count))
```

Output:-



```
list = [1,2,3,4,5,6]
count = 0
for n in list:
    if n%2== 0:
        print(n," is an even number")
        count+=1
        print("Count incremented '+1'")
    else:
        print(n," is a odd number.")
print("Total number of even numbers")
```



```
1  is a odd number.
2  is an even number.
Count incremented '+1':-  1
3  is a odd number.
4  is an even number.
Count incremented '+1':-  2
5  is a odd number.
6  is an even number.
Count incremented '+1':-  3
Total number of even numbers:- 3
```