

NAME : NOORJAHAN PINJARI

ROLL NO : 63/FYIT

## **1.Explain Green Computing With its Advantages.**

### **Ans : INTRODUCTION :**

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.

[1] Many IT companies have been start the use of green computing to reduce the environment impact of their IT operations [2]. 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 :**

1. Decreased vitality use from green figuring systems converts into bring down carbon dioxide discharges, coming from a decrease in the non-renewable energy source utilized in control plants and transportation.
2. Saving assets implies less vitality is required to create, utilize, and discard items.
3. Sparing vitality and assets sets aside extra cash
4. Green is empower that recycling and taking down vitality use by and organizations people.
5. Diminish the hazard existing in the workstations, for example, substance known to cause disease, nerve harm and resistant responses in people.

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

**Ans :**

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.

The ongoing challenge of how best to dispose of used and unwanted electronics isn’t a new one and dates back at least to the 1970s. But a lot has changed since then, particularly the number of electronics being discarded today.

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.”

## **Impact Of E-waste :**

### **1. Stem the Spread**

Before buying a brand new PC or other device, the Environmental Protection Agency (EPA) suggests you first consider upgrading the hardware or software. Many computers can have memory and performance enhancing features added to them. Deleting or zipping information can free up hard drive space. Also, uploading files to an online service, flash drive, or external storage can also boost performance. In addition, IFixIt.com offers many easy-to-follow videos to help troubleshoot problems with your electronic devices, preventing you from having to throw them away.

If this is not possible, however, make sure you delete all personal information from your electronic device before donating or recycling it. Remember scanners and copiers may have hard drives that record your information, so these also will need to be deleted. Finally, remove any batteries from your electronics; they may need to be recycled separately.

### **2. Sell or Donate**

There are many resources online for selling electronics that still work: craigslist, eBay, Usell, Gazelle, ecoatm, iReTron, and Glyde, to name but a few. Calling your local Goodwill or secondhand shop is another alternative; you may be surprised what they accept. Do you have an old cell phone to donate? Give [cellphonesforsoldiers.com](http://cellphonesforsoldiers.com) a look or [sellmycellphones.com](http://sellmycellphones.com). Search your area for a local schools, charities, or organizations that may want your old electronics. A good way to do this is with [www.cristina.org](http://www.cristina.org). This website provides a list of local organizations in need of specific electronics via a zip code search. And remember: Don’t forget to document your transaction. There are tax benefits to donating your old electronic items to charities.

### **3. Go Local**

for almost any type of material you might have around your home Know where your local electronics collection centers are. Apple will take back their products, Staples accepts

electronics items, and Best Buy will take almost any E-waste. You can also look for a local E-Steward-certified recycler in your area. This can be done by going onto [e-stewards.org](http://e-stewards.org) and selecting the “Find a recycler” tab. The EPA also offers a search feature to locate your electronic item, as well as to determine whether the manufacturer will take it back or offers mail-in options. Finally, [Earth911.com](http://Earth911.com) has a quick search or garage.

#### **4. Educate and Organize**

Now that you are a residential expert on E-waste, educate your neighbors and local businesses about pro recycling. By getting these electronics back into the recycling stream you can reduce the load on the mining, processing, manufacturing, and transport industries—in turn, reducing pollution. Not to mention, organizing a local drive to clean out old electronics can make a trip to the local recycling center much more economical. For those in the San Francisco Bay area, [Green Citizen.com](http://GreenCitizen.com) organizes pickups; the company also offers mail-in programs for those who don’t.

### **3.What are the Benefits of going Paperless?**

**Ans :**

#### **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.

The shift toward a paperless environment increases each year as new technology becomes available to improve data storage and electronic communication. Taking action to reduce paper usage may help your business be more efficient and enhance the level of security that guards your most valuable information.

## **4.What is Github? Advantages of using Github.**

**Ans :**

Github is a hosting platform wherein developers can store their computer code in the github server in files and folders called repository and track them continuously. It is an open-source version control and collaboration platform for program developers. It helps all the programmers to collaborate with each other who are working on a similar project and also share their code easily as and when required. The collection of these files will shows the

source code of a program which is spread across the files to make it easier to manage what can be many thousands of lines of code and still be able to find the parts you need to find.

## **Advantages of Using Github :**

### **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 GitHub 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.

### **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.

### **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.

### **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.

### **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.

### **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.

## 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 the program using PEP8 rules.

**Ans :**

### What is PEP-8?

PEP-8, or Python Enhancement Proposal, is the style guide for Python programming. It was written by Guido van Rossum, Barry Warsaw, and Nick Coghlan. It describes the rules for writing a beautiful and readable Python code.

Following the PEP-8 style of coding will make sure there is consistency in your Python code, making it easier for other readers, contributors, or yourself, to comprehend it.

This article covers the most important aspects of the PEP-8 guidelines, like how to name Python objects, how to structure your code, when to include comments and whitespaces, and finally, some general programming recommendations that are important but easily overlooked by most Python programmers.

Let's learn to write better code!

```
# Import needed package
```

```
from collections import defaultdict
```

```
# Define our data
```

```
list_data = [1, 2, 3, 4, 2, 4, 1, 2]
```

```
# Helper Function
```

```
def list_to_dict(input_list):
```

```
    """Convert list to DefaultDict"""
```

```
    d = defaultdict(int)
```

```
    for i in input_list:
```

```
        d[i] += 1
```

```
    return d
```

```
# Output
```

```
print(ltd(list_data))
```

