

IT PLATFORM,TOOLS AND PRACTICES ASSIGNMENT

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CLASS- FY.B.s.c.I.T

ROLL- 123

1. Explain Green Computing with its advantages?

ANSWER: - 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.

ADVANTAGES: -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?

ANSWER: -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

5 ways to reduce impact of E-waste are as follows: -

Stop 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.

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 second-hand shop is another alternative; you may be surprised what they accept.

Go Local: -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.

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.

Talk to Government Officials: -As noted above, there currently is no mandatory federal recycling legislation. Contact your Congressional representatives and let them know your stand on E-waste.

3. What are the benefits of going paperless?

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.

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.

Paperless files are easily saved and retrieved on the go: -

With the advent of photo-scanning apps, business travellers 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.

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.

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.

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.

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.

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

GitHub is a web-based version-control and collaboration platform for software developers. Microsoft, the biggest single contributor to GitHub, initiated an acquisition of GitHub for \$7.5 billion in June, 2018. GitHub, which is delivered through a software-as-a-service (SaaS) business model, was started in 2008 and was founded on Git, an open source code management system created by Linus Torvalds to make software builds faster.

Git is used to store the source code for a project and track the complete history of all changes to that code. It allows developers to collaborate on a project more effectively by providing tools for managing possibly conflicting changes from multiple developers. GitHub allows developers to change adapt and improve software from its public repositories for free, but it charges for private repositories, offering various paid plans. Each public or private repository contains all of a project's files, as well as each file's revision history. Repositories can have multiple collaborators and can be either public or private.

GitHub facilitates social coding by providing a web interface to the Git code repository and management tools for collaboration. GitHub can be thought of as a serious social networking site for software developers. Members can follow each other, rate each other's work, receive updates for specific projects and communicate publicly or privately.

ADVANTAGES: -

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.

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 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.

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.

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 a program using PEP8 rules?

Correct:

Aligned with opening delimiter.

```
foo = long_function_name(var_one, var_two,  
                         var_three, var_four)
```

Add 4 spaces (an extra level of indentation) to distinguish arguments from the rest.

```
def long_function_name(  
    var_one, var_two, var_three,  
    var_four):  
    print(var_one)
```

Hanging indents should add a level.

```
foo = long_function_name(  
    var_one, var_two,  
    var_three, var_four)
```

