**IT TOOLS Assignment**

**SUMEDH BHAT FYCS O7**

1.Explain Green Computing with its advantages

Answer:

* Green computing also called as green technology, is about using 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. It is about eco-friendly use of computer.
* Green computing is the emerging practice of using computing and information technology resources more efficiently while maintaining or improving overall performance.
* Green computing technique reduces the energy consumption which results into low carbon dioxide emission.
* By using green computing techniques we can also save money that was spent in extra usage of energy and resources.
* Green computing also applies changing government policy to encourage recycling.
* Green computing also removes the risk which is existing in the laptop such as chemical known to cause cancer or nerve damage etc.
* During the production of IT hardware, tremendous amount of green house gases are released to the atmosphere. Especially, since harmful gases such as carbon dioxide are emitted, it could lead to global warming. Hence, for lowering the amount of green house gases emitted, the production of hardware components must be reduced as well. This is how green computing works effectively.

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

Answer:

* 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.
* E-waste contains a laundry list of chemicals that are harmful to people and the environment, like: mercury, lead, beryllium, brominated flame retardants, and cadmium, i.e. stuff that sounds as bad as it is. When electronics are mishandled during disposal, these chemicals end up in our soil**,** water, and air.
* The manufacturing of these devices and the use of rare materials that go into their production represent a huge source of embodied energy.  Minimizing e-waste helps to conserve resources and reduces the amount of energy we take from the earth.
* **Re-evaluate.** Do you really need that extra gadget? Try finding one device with multiple functions.
* **Extend the life of your electronics.** Buy a case, keep your device clean, and avoid overcharging the battery.
* **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.

Answer:

* Time spent filing, organizing, and searching for paper documents is time that could be spent on more productive tasks. Digitized documents are stored in a central repository, which is basically a well-organized digital filing cabinet where all of your documents live.
* 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.
* Going digital improves 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.
* 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 office.

4.What is Github? Give advantages of Github.

Answer:

* Github is a website for developers and programmers to collaboratively work on codes and programs.
* 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 is completely free and you can use it without paying and since it is an open source you can download the source code and can make changes as per the requirements.
* Here chance of losing data is very low as it provides the multiple copies of it. Since most of the operations are preferred locally, it allows huge benefit in terms of speed.
* Github allows multiple developers to work on a single project at a time. It helps all the team members to work together on a single project at at a time from different locations.

5.Write a program using PEP8 rules.

Answer:

Code:

def list\_sum(my\_list):

sum = 0

for I in my\_list:

sum += i

return sum

my\_list = [1, 2, 3, 4]

output = my\_list = list\_sum(my\_list)

if output >=10:

print(“You have reached the threshold.”)