



MALAD KANDIVALI EDUCATION SOCIETY'S  
NAGINDAS KHANDWALA COLLEGE OF COMMERCE,  
ARTS & MANAGEMENT STUDIES & SHANTABEN NAGINDAS KHANDWALA  
COLLEGE OF SCIENCE  
MALAD [W], MUMBAI - 64  
(AUTONOMOUS)

(Reaccredited 'A' Grade by NAAC)  
(AFFILIATED TO UNIVERSITY OF MUMBAI)  
(ISO 9001:2015)

CERTIFICATE

Name: Mr./Ms.\_Gunja satrajeet Singh |

Roll No: 88      Programme: BSc IT/CS      Semester: II

This is certified to be a bonafide record of practical works done by the above student in the college laboratory for the course **IT platforms, Tools and Practices** (Course Code: 2026UISTP) for the partial fulfillment of Second Semester of BSc IT/CS during the academic year 2020-2021.

The journal work is the original study work that has been duly approved in the year 2020-2021 by the undersigned.

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External Examiner

Subject-In-Charge  
(Ms.Sweety Garg)

Date of Examination: (College Stamp)

Name: Gunja Singh

Roll No: 88

Sr. No.	DATE	TITLE	SIGN
1.	2/2/21	INTRODUCTION and CONTRIBUTING TO WIKIPEDIA a) What is Wikipedia? b) Steps to Create Account on Wikipedia c) Creating Page on Wikipedia d) Edit your page	
2.	9/2/21	Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.	16/2/21	BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE a) Describe Open-Source Software with Example. b) Describe Free Software with Example c) Difference between Free and Open-Source Software.	
4.	23/2/21	WRITING EMAIL	
5.	25/2/21	Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.	2/3/21	WRITING BLOGS	
7.	9/3/21	Implementing coding practices in Python using PEP8.	
8.	25/3/21	PRESENTATION: _____	

**PRACTICAL NO – 1**  
**INTRODUCTION DESCRIPTION AND TO WIKIPEDIA**

NAME – Gunja Singh

ROLL NO – 88

CLASS – FYIT

**1)DESCRIPTION ABOUT WIKIPEDIA AND ITS FEATURE**

**DESCRIPTION :**

Wikipedia was launched on January 15, 2001 by [Jimmy Wales](#) and [Larry Sanger](#). Sanger coined its name as a [portmanteau](#) of "wiki" and "encyclopedia". It was initially an [English-language encyclopedia](#), but versions in [other languages](#) were quickly developed. With 6.2 million articles, the English Wikipedia is the largest of the 317 Wikipedia encyclopedias. Overall, Wikipedia comprises more than 55 million articles, attracting 1.7 billion unique visitors per month.

**FEATURES :**

Wikipedia [has been criticized](#) for its uneven accuracy and for exhibiting [systemic bias](#), including [gender bias](#), with the majority of editors being [male](#). [Edit-a-thons](#) have been held to encourage female editors and increase the coverage of women's topics. In 2006, [Time](#) magazine stated that the open-door policy of allowing anyone to edit had made Wikipedia the biggest and possibly the best encyclopedia in the world, and was a testament to the vision of Jimmy Wales. The project's reputation improved further in the 2010s as it increased efforts to improve its quality and reliability, based on its unique structure, curation and absence of commercial bias. In 2018, [Facebook](#) and [YouTube](#) announced that they would help users detect [fake news](#) by suggesting links to related Wikipedia articles

**2)CREATING ACCOUNT ON WIKIPEDIA**

**STEP 1 :** Fill all your details in the given space and enter the captcha



Edit with WPS Office

Singh Gunja

.....

.....

gunja2257@gmail.com

togaeends

 Refresh

togaeends

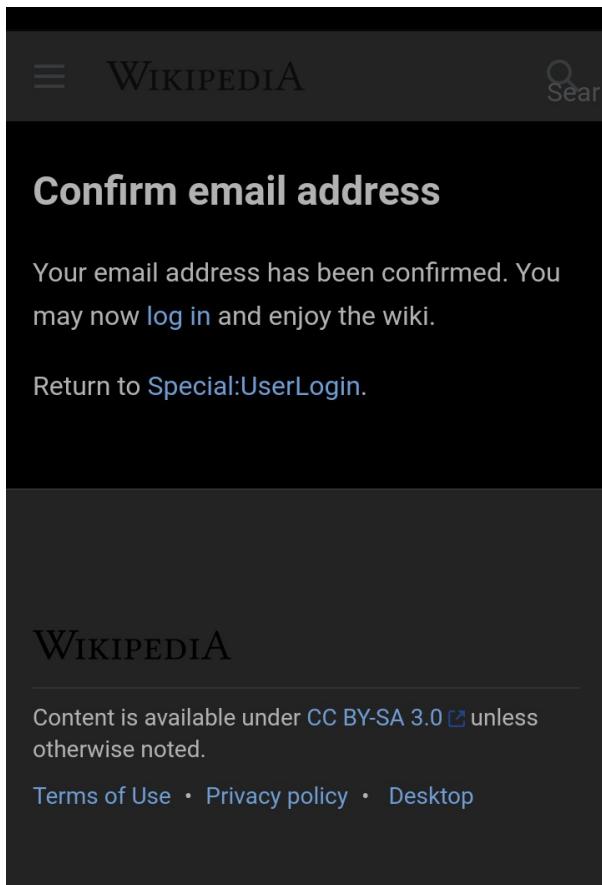
Can't see the image? [Request an account](#)

[Create your account](#)

**STEP 2 : Verify your email account**



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STEP 3 : This is the created page



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Article Talk



Add discussion

#### Active discussions

Outdated reliability discussion in lede

Small typo in footnote #67

WP 20



Recursion

Policies and laws | US law not applicable in EU

Elaborating Upon "Wikipedia is subject to manipulation and spin"

Semi-protected edit request on 14 February 2021

### 3) CREATING YOUR PAGE ON WIKIPEDIA

**STEP 1 :** Click on user page to create your own pag

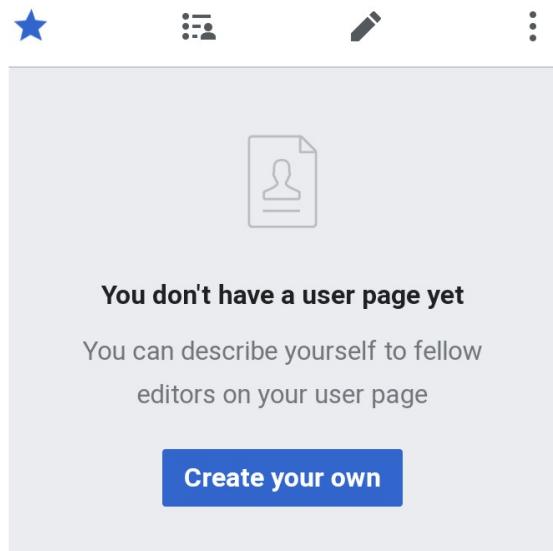


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# Singh Gunja

Joined 5 hours ago

User page Talk



**STEP 3 :** Publish your page after making it

< Previewing User talk:Singh ... Publish

## Summary:

Example: Fixed typo, added content

By saving changes, you agree to the [Terms of Use](#) and agree to release your contribution under the [CC BY-SA 3.0](#) and [GFDL](#) licenses.

Hello my name is gunja singh. I'm learning coding for the first time and I'm a Fy student



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#### 4) EDITING YOUR PAGE ON WIKIPEDIA

STEP 1 : We can edit or change our page after publishing it by click on edit page

Singh Gunja  
Joined 5 hours ago

User page Talk

Hello everyone my name is gunja singh. I'm learning coding for the first time and I'm a Fy student

Last edited just now by Singh Gunja >

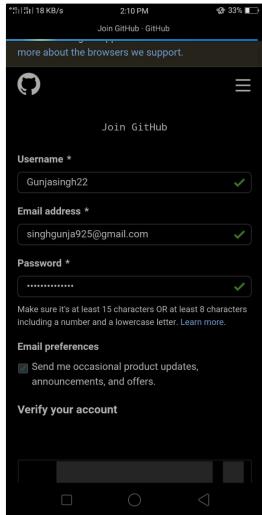


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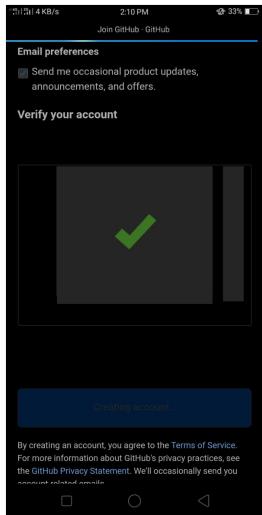
## PRACTICAL NO – 2

### A) CREATING ACCOUNT:

STEP 1 : Enter all the required details



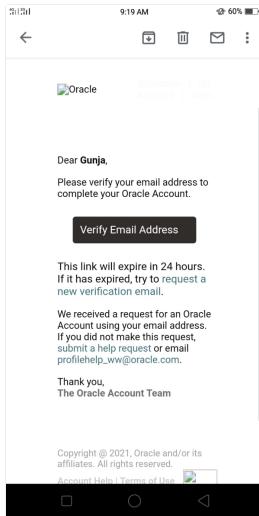
2) STEP 2: Verify the account



3) STEP 3 : verify your email account it will receive a link to join



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## B) CREATING REPOSITORY :

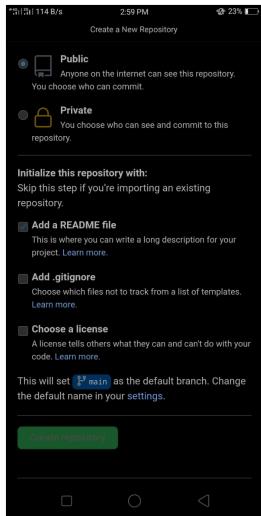
### 1) STEP 1 : Click on create repository



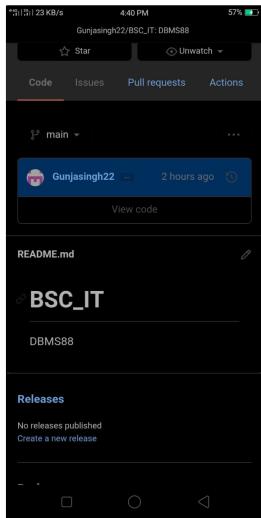
### 2) STEP 3 : click to readme file and click on create repository



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### 3) STEP 4 : your repository has been created

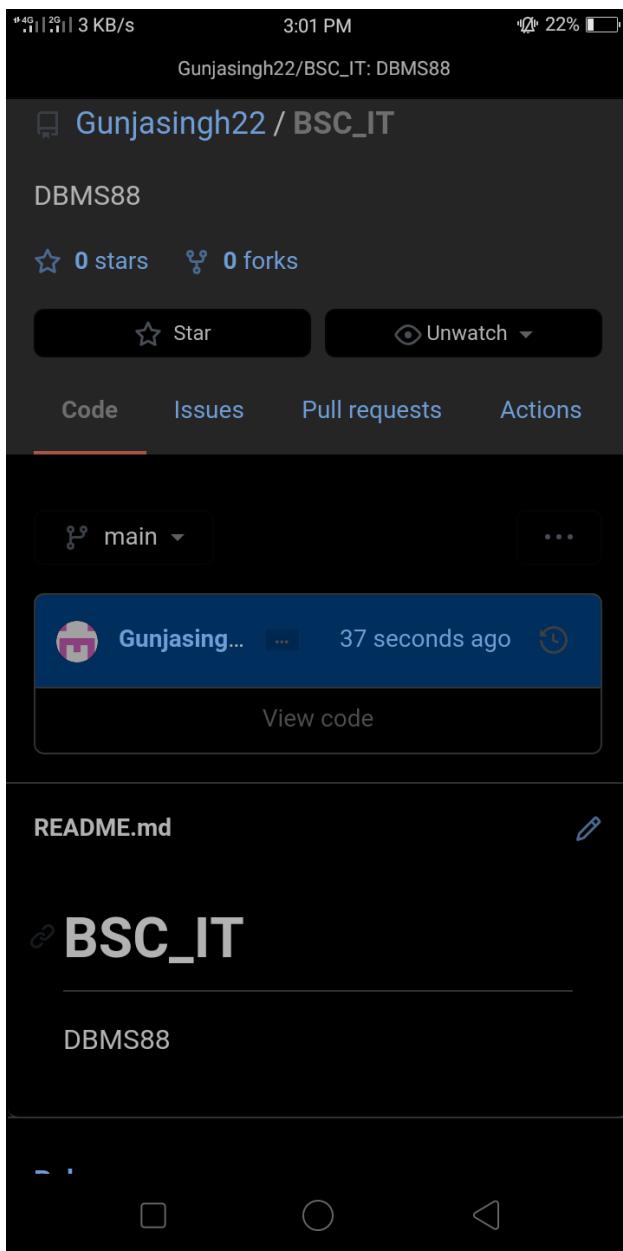


### C)CLONING REPOSITORY :

STEP 1 : Click on the code and copy the repository through HTTPS and paste it to your file to clone.



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## PRACTICAL NO – 3

Name. Gunja Singh

Roll no. 88

Class. FYIT

### BASIC UNDERSTANDING ON FREE AND OPEN- SOURCE SOFTWARE

#### A) Describe Open Source Software with Example.

- ✓ Open-source software (OSS) is a type of a computer software in which source code is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software to anyone and for any purpose.
- ✓ Open- source software may be developed in a collaborative public manner.
- ✓ Open- source software is a prominent example of open collaboration.
- ✓ Open- source development can bring in diverse perspective beyond those of a single company.
- ✓ A report by standish group stated that adoption of open- source software model has resulted in saving of about 60 billion per year for consumers.
- ✓ The major examples include as follows:
- ✓ Firefox – a web browser that competes with internet explorer.
- ✓ Open office – a competitor to Microsoft office.
- ✓ Gimp – a graphical tool with features found in photoshop.
- ✓ Alfresco – collaboration software that competes with Microsoft share point and EMC's documentum.
- ✓ Marketcetera – an enterprise trading platform for hedge fund manager that competes with FlexTrade and Portware.
- ✓ Zimbra – open- source email software that competes with outlook server.
- ✓ SugarCRM – customer relationship management software that competes with salesforce.com and Siebel.
- ✓ Asterix – an open- source implementation for running a PBX corporate telephony system.
- ✓ Free BSD and Sun's Open Solaris – open source version of the Unix operating system.

#### B) Describe Free Software with Examples.

- ✓ Free software means software that respects user's freedom and community.
- ✓ Roughly it means that the users have have the freedom to run, copy, distribute, study, change and improve the software.



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- ✓ The first term software is sometimes misunderstood it has nothing to do with price, it is about freedom.
- ✓ The examples of free software's license are given as follows:
- ✓ Apache License.
- ✓ BSD License.
- ✓ GNU general public license.
- ✓ GNU lesser general public license.
- ✓ MIT license.
- ✓ Eclipse public license.
- ✓ Mozilla public license.

### C) Difference Between Free AND Open Source Software.

FREE SOURCE SOFTWARE	OPEN- SOURCE SOFTWARE
1)The freedom to deploy the software for any use case without any restrictions.	1)Free distribution of software's.
2)The freedom to study how the software works and modify it according to their needs and preferences.	2)The source code should be publicly available.
3)The freedom to freely redistribute the software to assist someone in need.	3)The software can be modified and distributed in a different format from the original software.
4)The freedom to enhance the performance of the software for the community to benefit both the programmers.	4)The software should not discriminate against persons or groups.
5)The redistribution must be done at a cost or no cost.	5)The software should not discriminate the usage of software.



**PRACTICAL NO – 4**  
**(WRITING EMAIL)**

**NAME – Gunja Singh**

**ROLL NO – 88**

**CLASS - FYIT**

← Compose ⏪ ➤ :

From gunja2257@gmail.com ▾

To  SWEETY GARG ▾

Regarding for IT tools Assignment 1  
summiton

Respected Madam/ Sir  
Good Morning  
I, Gunja Singh student of FYIT Roll no 88  
is writing this email to you in concern  
with my missing summiton of IT tools  
Assignment 1 as I was admitted in  
hospital from 12.02.2021 to 20.02.2021.

I Request you kindly allow me to submit  
my assignment by sunday 28.02.2021.

Looking forward for your positive  
response.

Encl: My Reports

Regards  
Gunja Singh  
FYIT-88



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## Practical No 5

Name – Gunja Singh

Roll No – 88

Class – FYIT

1) Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing.

Ans: Whitelabel IT Solutions maintains the goal to leave as minimal of an eco-footprint as possible, while continuously making our data center as "green friendly" as possible through green computing. Green computing is the environmentally responsible and eco-friendly use of computers and their resources. In broader terms, it is also defined as the study of designing, manufacturing/engineering, using and disposing of computing devices in a way that reduces their environmental impact.

Steps to contribute in green computing :

1. Buy "Energy Star" labeled monitors, desktops, laptops, and printers . The "Energy Star" devices can be programmed to "power-down" to a low power state when they are not in use, helping you save energy and run cooler which helps them last even longer. The Energy Star specification for computers was revised on October 20, 2006 and goes into effect July 20, 2007. The specification includes new performance requirements to qualify for the Energy Star rating for desktop and notebook computers, workstations, integrated computers, desktop-derived servers and game consoles. Now you can feel good about that upgrade!

2. Put laptops in "sleep" mode when not in use. The EPA has estimated that this reduces their energy use by 60 to 70 percent – and ultimately could save enough electricity each year to power Vermont, New Hampshire, and Maine, cut electric bills by \$2 billion, and reduce carbon dioxide emissions by the equivalent of 5 million cars.

3. Even better, turn OFF computers and other equipment when not in use. Despite the debate over whether it's better for your computer to be left on or shut off, the fact is it's better for the environment to shut it off.



Trust me, your computer can handle it just fine; in fact, computers were designed to be turned off and back on!

4. E-cycle used computer equipment. Find a recycler in your area. Also, Staples, the office supply retailer, has now started a recycling program. They will accept any brands of used desktop and notebook computers, monitors, printers, fax machines and all-in-one devices with a fee of \$10. Smaller items like keyboards, mice and speakers are free to drop off.
5. Buy the new "Smart Strip" power strip. The Smart Strip actually senses how much power your computer peripherals use. And when the Smart Strip senses that you've turned your computer off, it automatically shuts off your peripherals, too, preventing them from drawing an idle current, which is the current drawn even after equipment is shut off.



## Practical No 6.

Name. Gunja Singh

Roll No. 88

Class. FYIT

### Blog Prsentatension :

← SCHOOL DAYS MEMORIES

ENDLESS MEMORIES

March 23, 2021

The school life is the best life. Anyone who has been a student, knows what school life is all about: It is the golden period of learning and it truly impacts students' lives. The importance of school life cannot be negated and it is a vital formative experience for children and adult students alike.

School days really are the best days of our lives, and I have only good memories of my school days. For me, these days are like an invaluable treasure. As we know, that if we want to make any dish tasty and delicious, there should be added proper ingredients, like that way if we want to make our school life best and memorable, there should be also needed ingredients, like friends, teachers, lectures, recess, proxy, canteen, computer lab,....etc.

I clearly remember my first day at school and the memories of this day are still remembered that I have cried to not to go school. It is said that a person always remembers their first day at school and their last day at school. The first day a child remembers because it came there crying. And the last day a student remembers because they leave school, crying again. In my case, I remember clearly my first day at school and my last day at the school. The joys of school life are surely countless. Indeed, the school days are the best of our lives.

As a school girl I learned to co-operate and got motivated and shaped in the company of my best friends. I still remember how our teachers motivate us to be a good person, good habits, value of studies, good manners, etc.

I still have a lot of pictures we took in high school which remind me of all the good memories we made. I remember the days we celebrated and the extracurricular activities we took part in.



This 8 years has been an overall life changing experience that I will never forget in my life. "Let us remember; one book, one pen, one child and one teacher can change the world".



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## Practical No 7

Name – Gunja Singh

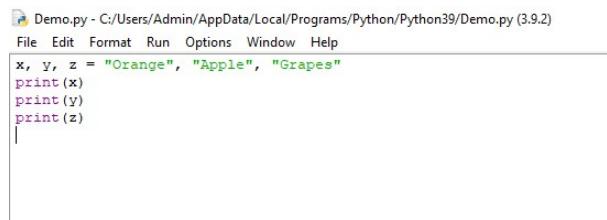
Roll No – 88

Class – FYIT

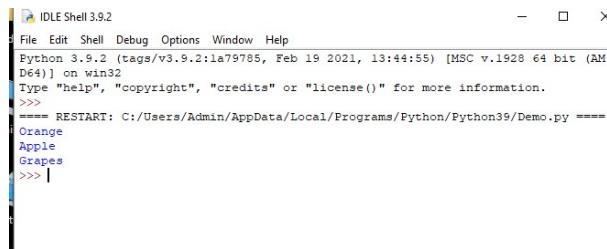
1) Implementing coding practices in Python using PEP8.

Continuation lines should align wrapped elements either vertically using Python's implicit line joining inside parentheses, brackets and braces, or using a hanging indent. When using a hanging indent, the following should be considered; there should be no arguments on the first line and further indentation should be used to clearly distinguish self as a continuation Line

Correct:



Demo.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py (3.9.2)  
File Edit Format Run Options Window Help  
x, y, z = "Orange", "Apple", "Grapes"  
print(x)  
print(y)  
print(z)



IDLE Shell 3.9.2  
File Edit Shell Debug Options Window Help  
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AM  
D64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
==== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py ====  
Orange  
Apple  
Grapes  
>>>

Wrong Indent Example



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A screenshot of a Python IDE window titled "Demo.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py (3.9.2)". The code in the editor is:

```
x, y, z = "Orange", "Apple", "Grapes"
print(x)
print(y)
print(z)
```

An error dialog box titled "SyntaxError" is displayed, showing the message "unexpected indent".

Python was designed for readability, and has some similarities to the English language with influence from mathematics. Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses.

A screenshot of a Python IDE window titled "Demo.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py (3.9.2)". The code in the editor is:

```
if 7 > 3:
    print("Seven is greater than three!")
if 7 > 3:
    print("Seven is greater than three!")
```

A screenshot of the IDLE Shell window titled "IDLE Shell 3.9.2". The shell output shows the execution of the code from the previous screenshot:

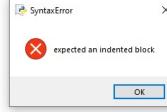
```
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py =====
Seven is greater than three!
Seven is greater than three!
>>>
```

Pep8 is one of the tools for accurately writing Python codes with proper rules and styling for the codes. This documentation of rules is very important for the developers to write the code which is more readable and less complex for others.



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```
Demo.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py (3.9.2)
File Edit Format Run Options Window Help
n = 10
if n> 4:
print "n is greater"


```

```
*Demo.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py (3.9.2)*
File Edit Format Run Options Window Help
n = 10
if n> 4:
print ("n is greater")
|
```

```
idle Shell 3.9.2
File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:49:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python39/Demo.py =====
n is greater
>>> |
```



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# CARBON FOOTPRINT IN GREEN COMPUTING



*GROUP NO - 9*



# GROUP MEMBERS

*SAMI VORA (100)*

*DHARABEN PATEL (141)*

*GUNJA SINGH (88)*

*BHAVESH KUMHAR (126)*

*MANAV SHETTY (84)*

*RUPAL PATEL (59)*

*DAKSH RAI (123)*

*NIYATI SHAH (77)*



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# HISTORY

- *Started in 90's*
- *Energy star program*
- *Basic use*
- *Goal*



# INTRODUCTION

## *GREEN COMPUTING*

- *Environmentally responsible*
- *Disposal of electronic waste (e-waste)*
- *Reducing environmental hazardous material*
- *sustainable resources*
- *Green computing technology*
- *stages in the lifecycle*



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## **CARBON FOOTPRINTING**

- *Greenhouse Gases (GHG)*
- *Global Warming*
- *world's carbon dioxide emission percentage*
- *important measure*
- *Human Activities*



## TYPES OF GREEN COMPUTING

- *Solar Power System*
- *Wind Turbine Program*
- *Geothermal Power*



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## GOALS OF GREEN COMPUTING

- *To minimize the implementation of hazardous products.*
- *More production of energy efficiency.*
- *To use the recyclability of wasted product and factory wasted products.*
- *To design proper algorithms for improve the computer's efficiency*



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## NEED OF GREEN COMPUTING

- 1) Save energy
- 2) Save environment
- 3) Recycle of waste product
- 4) Save Money
- 5) Energy consumption



## APPROACHES TO GREEN COMPUTING

- *Terminal Servers*
- *Power Management*
- *Power Supply*
- *Storage*
- *Product Recycling*



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# ADVANTAGES

*1) Energy Saving*

*2) cost saving*

*3) Recycling Process*

*4) Brand Strengthen*

*5) Less pollution*

*6) GHG*

*Emissions*

*7) chemical exposure*

*8) Green IT implementation*

*9) Saving energy and resources saves*

*money*

*10) Renewable energy*



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# DISADVANTAGES

- 1) Implementation cost*
- 2) Performance*
- 3) Maintenance*
- 4) Adaptation*
- 5) Security leaks*
- 6) IT knowledge*
- 7) Support system*
- 8) Green IT cause more burden to an individual*
- 9) Rapid technology Change*
- 10) Power Management*



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## EXAMPLE

*E.g.- Renewable Energy Sources:-*

- *Renewable energy sources don't use fossil fuel. They are available freely, are environmentally friendly and generate less pollution. Apple, who is building a new corporate centre, is planning to use most of the building's wind turbine technology, and Google has already built a wind-powered data centre.*



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## METHODS TO CURE CARBON FOOTPRINTING IN GREEN COMPUTING

### *Improving systems' efficiency*

- *Old PC's*
- *Outdated part and insufficient memory*
- *Upgrade the equipment*

### *Using Renewable Energy in IT*

- *Green computing Eco-friendly*
- *Carbon free computing*
- *Solar energy computing*



## FIVE WAYS TO REDUCE CARBON FOOTPRINT

- *learn the 5 R's: refuse, reduce, reuse, rot, recycle: Going zero waste is a great step towards combating climate change. ...*
- *bike more and drive less: ...*
- *conserve water and protect our waterways: ...*
- *eat seasonally, locally, and more plants: ...*
- *switch to sustainable, clean energy:*



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# HOW YOU CAN SUPPORT GREEN COMPUTING

*Energy star labeled products*

*Turn off computer*

*Optimal brightness level*

*Use of IT peripherals*

*Screen Saver*

*Environmental Companies*

*Donate or Recycle*

*Both side printing*



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*Sleep mode*

*Power Management*

*Non-petroleum inks*

*Use VoIP technology*

*CRT to OLED*

*Participate recycling program*

*solution*

*Don't buy new printers*

*Green packing*



*Replace LCD/*



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# HOW WE CAN CALCULATE CARBON FOOTPRINT

- *Define what all thing contributes to the carbon footprint*
- *Baseline should be set*
- *Track and analyse the carbon footprint of the organization*
- *Report the result to stakeholders*



# CONCLUSION

- *Features of Green computing*
- *Society needs more consumption*
- *Alternative ways to design system*
- *Contribution to green computing*
- *Eco-friendly sustainable component*





THANK  
YOU



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