



**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

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Roll No: 97 Programme: BSc IT 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 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.

External Examiner

Subject-In-Charge (Ms.Sweety Garg)

Date of Examination: (College Stamp)

Sr. No.	DATE	TITLE	SIGN
1.		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.		Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.		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.		WRITING EMAIL	
5.		Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.		WRITING BLOGS	
7.		Implementing coding practices in Python using PEP8.	
8.		PRESENTATION: _____	

Practical 1

Introduction and Contribution to Wikipedia

a) Description about Wikipedia and its features

Description is the pattern of narrative development that aims to make vivid a place, object, character, or group. Description is one of four rhetorical modes (also known as modes of discourse), along with exposition, argumentation, and narration. In practice it would be difficult to write literature that drew on just one of the four basic modes.

Jimmy Wales and Larry Sanger co-founded Wikipedia as an offshoot of an earlier encyclopedia project, Nupedia, in January 2001. Originally, Wikipedia was created to provide content for Nupedia. However, as the wiki site became established it soon grew beyond the scope of the earlier project. As of January 2015, the website provided well over five million articles in English and more than that number in all other languages combined. At that same time, Alexa ranked Wikipedia as the seventh-most popular site on the Internet. Wikipedia was the only non-commercial site of the top ten.

Criticisms of Wikipedia include assertions that its openness makes it unreliable and unauthoritative. Because articles don't include bylines, authors aren't publicly accountable for what they write. Similarly, because anyone can edit any article, the site's entries are vulnerable to unscrupulous edits. In August 2007, Virgil Griffiths created a site, WikiScanner, where users could track the sources of edits to Wikipedia entries. Griffiths reported that self-serving edits typically involved

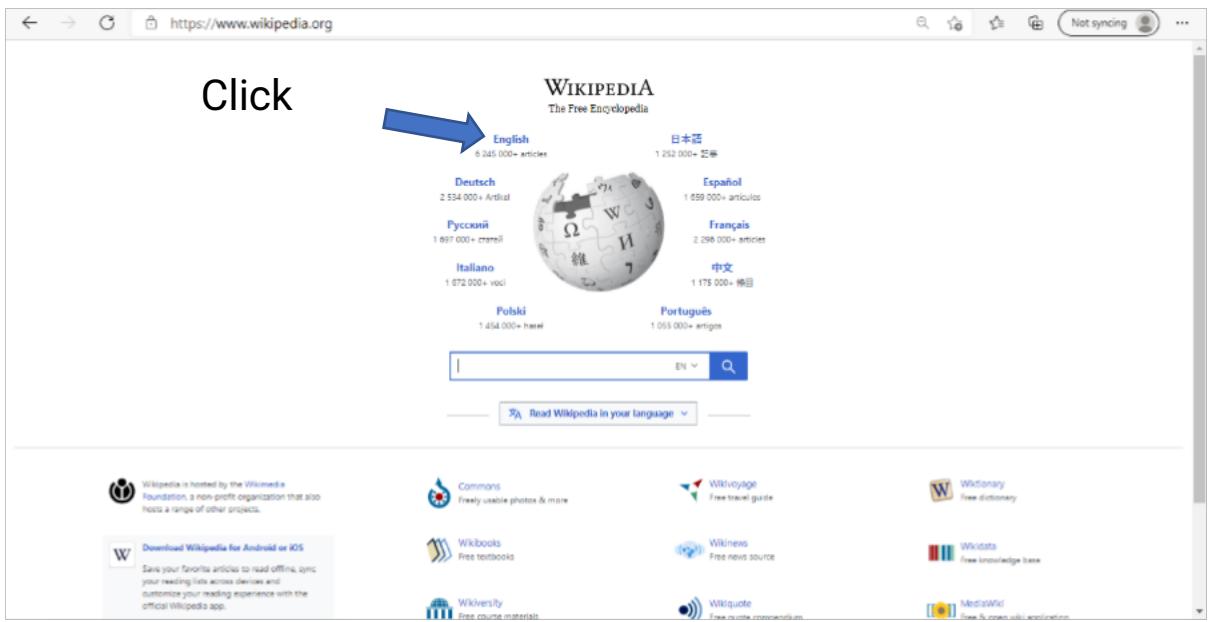
whitewashing or removal of criticism of a person or organization or, conversely, insertion of negative comments into the entry about a competitor. Wikipedia depends upon the vigilance of editors to find and reverse such changes to content.

In addition to the encyclopedia, the non-profit Wikipedia foundation oversees several other open-content projects, including:

- Wiktionary, a dictionary and thesaurus
- Wikibooks, a collection of free texts and other books
- Wikiquote, a collection of quotations
- Wikisource, a collection of free source documents
- Wikiversity, a collection of free learning materials
- Wikispecies, a directory of species
- Meta-Wiki, which coordinates all the other projects.

Wikipedia was one of the first social media websites.

b) Creating Account on Wikipedia



Step 1:- search Wikipedia on your default browser.

Step 2:- click on your preferred language.

The screenshot shows the English Wikipedia Main Page at the URL "https://en.wikipedia.org/wiki/Main_Page". At the top, there's a navigation bar with "Not syncing" and a user icon. Below it, there are tabs for "Read", "View source", "View history", and "Search Wikipedia". A blue arrow points to the "Create account" button, which is located in the top right corner of the header. The main content area features a welcome message, a featured article about the Silesian Wars, and a "In the news" section with a photo of Carlos Menem.

Step 3:- Click on “create account”.

← → ⌂ https://en.wikipedia.org/w/index.php?title=Special>CreateAccount&returnto=Main+Page ⌂ Not syncing

Create account

Your username will be public.

Please consider using an **anonymous username**, and not your real name, unless you are comfortable with your identity being public for the entire internet to see and identify you.

Once an account has been created, it is essentially impossible to hide the original username should you later want to change it for privacy reasons.

Username (help me choose)

Password

It is recommended to use a unique password that you are not using on any other website.

Confirm password

Email address (optional)

To protect the wiki against automated account creation, we kindly ask you to enter the words that appear below in the box (more info): CAPTCHA Security check

Can't see the image? Request an account

Wikipedia is made by people like you.

1,002,153,480 edits

6,249,706 articles

148,564 recent contributors

Step 4:- Fill your details here to create account in wikipedia.

← → ⌂ https://en.wikipedia.org/wiki/Main_Page ⌂ Not syncing

Main Page Talk

Welcome to Wikipedia,

the free encyclopedia that anyone can edit.

6,249,876 articles in English

From today's featured article

Prussian grenadiers advancing during the Battle of Hohenfriedberg. The Silesian Wars were a series of three wars fought between Prussia (under King Frederick the Great) and Austria (under Archduchess Maria Theresa) for control of the Central European region of Silesia (now in south-west Poland). The First (1740–1742) and Second Silesian Wars (1744–1745) formed parts of the War of the Austrian Succession. In which Prussia was one member of an anti-Austrian coalition. The Third Silesian War (1756–1763) was one theatre of the global Seven Years' War, in which Austria led a coalition aiming to seize Prussian territory. All three ended in Prussian victories, and their overall territorial result was Austria's cession of the majority of Silesia to Prussia, which emerged from the conflict as a new European great power. Austria's defeat by a lesser German power significantly damaged its prestige.

Silesian Wars as a new European great power. Austria's defeat by a lesser German power significantly damaged its prestige. The conflict foreshadowed a century-long Austria–Prussia rivalry for hegemony over the German-speaking peoples.

(This article is part of a featured topic: Silesian Wars.)

Recently featured: M113 armoured personnel carriers in Australian service • Saturn (magazine) • Grant Memorial collage

Archive • By email • More featured articles

Did you know ...

- ... that Micheline Legendre organized Canada's first puppetry festival (pictured) in conjunction with the 1967 World Expo in Montreal?
- ... that London-based dream-pop duo SHM Comers' album *The Last Exit* paints a picture of open-road Americana?
- ... that the administrator of the Royal Society of New Zealand, Mimie Wood, correctly predicted that she would be replaced by five people upon retirement?

In the news

Wikimedia Wikimeet India 2021! Registration open for Wikimedia Wikimeet India 2021 until 16 February 2021! Main Event: February 19 - 21, 2021

The arts • History • Society

Biography • Mathematics • Technology

Geography • Science • All portals

On this day

February 15: Shrove Monday (Western Christianity, 2021); National Flag of Canada Day (1965) and Family Day in Canada (2021); Statehood Day in Serbia (1804); Washington's Birthday / Presidents' Day in the United States (2021)

1796 – French Revolutionary Wars: The Invasion of Ceylon ended with Johan van Angenstein, the Batavian governor of the island, surrendering Colombo to British forces.

1823 – James McBrien made the first official discovery of gold in

Carlos Menem in 1995

Nominate an article

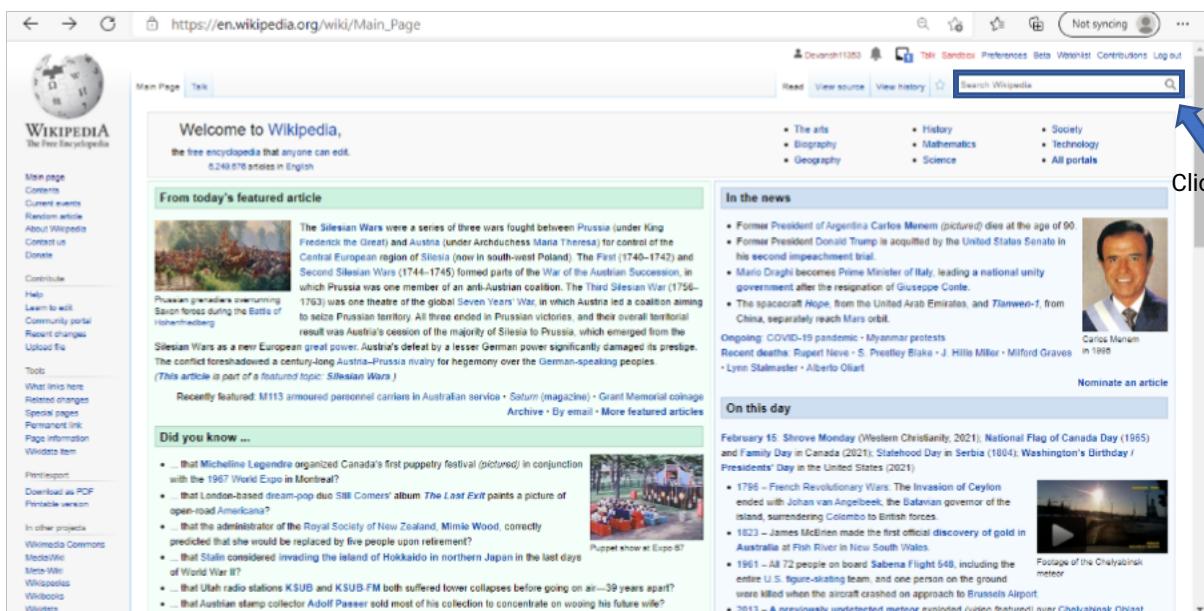
Congratulations your account is created.



Edit with WPS Office

Creating your page on Wikipedia.

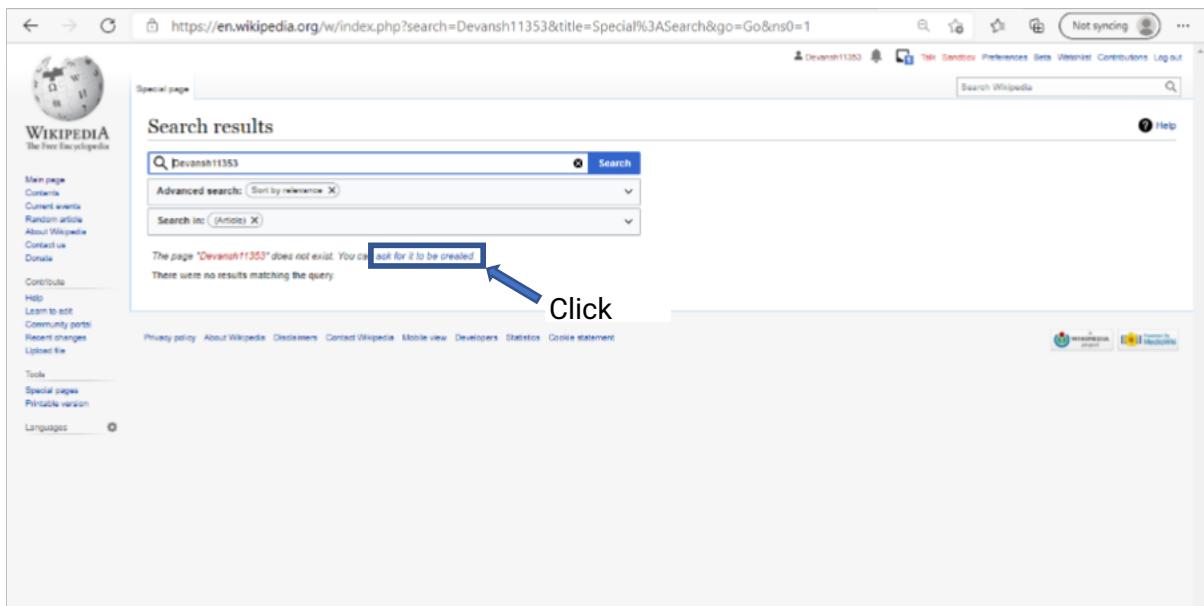
1) Search Your Name:



A screenshot of the English Wikipedia homepage. At the top, there is a navigation bar with links for 'Main Page', 'Talk', 'Search Wikipedia' (with a magnifying glass icon), and user account links. Below the search bar, there are categories like 'The arts', 'History', 'Mathematics', etc. A blue arrow points to the 'Search Wikipedia' button. The main content area features a 'Welcome to Wikipedia' banner, a 'From today's featured article' section about the Silesian Wars, and a 'Did you know...' section with various facts. On the right side, there is a 'In the news' section with recent events and a 'On this day' section with historical events from February 15.

Click here

2)



A screenshot of a Wikipedia search results page for the query 'Devansh11353'. The search bar at the top contains the query 'Devansh11353'. Below the search bar, there is a message stating 'The page "Devansh11353" does not exist. You can ask for it to be created.' A blue arrow points to this message. The page also states 'There were no results matching the query.' The rest of the page includes the standard Wikipedia sidebar with links to 'Special page' and other sections like 'Search results'.

Click



Edit with WPS Office

3)

The screenshot shows the 'Wikipedia:Articles for creation' page. On the left, there's a sidebar with links like 'Main page', 'Contents', 'Community', 'Recent edits', 'About Wikipedia', 'Contact us', 'Donate', 'Help', 'Learn to edit', 'Community portal', 'Recent changes', 'Upload files', 'Tools', 'What links here', 'Recent changes', 'Special pages', 'Permanent link', 'Page information', 'What's new', 'Print/export', 'Download as PDF', 'Printable version', 'Languages', and 'WMF'. The main content area has a heading 'Welcome to Articles for Creation!' with a 'W+P' logo. Below it, there's a section titled 'Creating an article' with a bulleted list of guidelines. A large blue button labeled 'Click here to start a new article' is highlighted with a blue arrow pointing to it from the left.

4)

The screenshot shows the Wikipedia Article Wizard welcome page. At the top, there's a banner for 'Wikimedia Wikimeet India 2021' with the text: 'Registration open for Wikimedia Wikimeet India 2021 until 16 February 2021! Main Event: February 19 - 21, 2021'. Below the banner, the page title is 'Wikipedia Article Wizard Welcome'. A blue button labeled 'Next' is highlighted with a red box and a blue arrow pointing to it from the left. To the right of the 'Next' button is the text 'Click here Practice in your personal sandbox'. On the far left, there's a sidebar with various links like 'Main page', 'Contents', 'Current events', etc. At the bottom of the sidebar, there are language selection buttons for 'Bengali', 'Català / espanyol', 'Español', 'Tiếng Việt', and '中文'.

5)



Edit with WPS Office

The screenshot shows the Wikipedia Article Wizard for 'Referencing and notability'. The left sidebar contains links like Main page, Content, Current events, Random article, About Wikipedia, Contact us, Donate, Help, Learn to edit, Community portal, Recent changes, Upload file, Tools, What links here, Related changes, Special pages, Permanent link, Page information, Wikipedia talk, Print/export, Download as PDF, Printable version, Languages, Bosanski, Cymraeg / Welsh, Français, and Edit links. A blue box highlights the 'Next' button at the bottom left. A blue arrow points from the text 'Click here' to the 'Next' button.

From Wikipedia, the free encyclopedia

< Wikipedia Article Wizard

Wikipedia Article Wizard

Referencing and notability

Your article will be rejected if the topic is not notable, is not referenced properly, or violates copyright.

Copyright

Do not copy/paste or closely paraphrase material from sources. Rather summarize what the source says in your own words.

Notability

The topic of an article must already be covered in reliable sources that are independent of the subject. These include academic journals, books, newspapers, magazines, and websites with a reputation for fact checking. Social media, press releases or corporate/professional profiles do not qualify.

Referencing

- Independent sources (see above) are generally acceptable and should be used before other sources.
- Non-independent sources (like company websites or press releases) can be used to verify basic facts only.
- Blogs, social media, and tabloid journalism are generally not acceptable.

To create a reference, use `<ref></ref>` as follows:

`Bizco was founded in 1942.<ref>https://www.nytimes.com/bizco</ref>`

More detail on how to cite different types of materials can be found at our introduction to referencing guide.

Next ← Click here

6)

The screenshot shows the Wikipedia Article Wizard for 'Common mistakes'. The left sidebar is identical to the previous screenshot. A blue box highlights the 'I'm writing about myself, or a close person/subject' button. A blue arrow points from the text 'Click here' to this button.

From Wikipedia, the free encyclopedia

< Wikipedia Article Wizard

Wikipedia Article Wizard

Common mistakes

There are a lot of common mistakes that are made with drafts. Here are a few you must watch out for:

- Writing about yourself or someone/something you're close to
Whether it is yourself, a family member, a friend, an employer, a mentor/business partner, writing about topics close to you (and the people close to you) is discouraged as the article you will create may not be useful.
- Copy-pasting material
You must write the article in your own words, or it may be deleted.
- Not citing your sources
Articles without independent reliable sources usually get deleted within days.
- Overly promotional language
Terms like "leading expert" and "ground-breaking technology" sound great when promoting a product, but they do not belong on Wikipedia. Let the facts speak for themselves.

I'm paid to edit

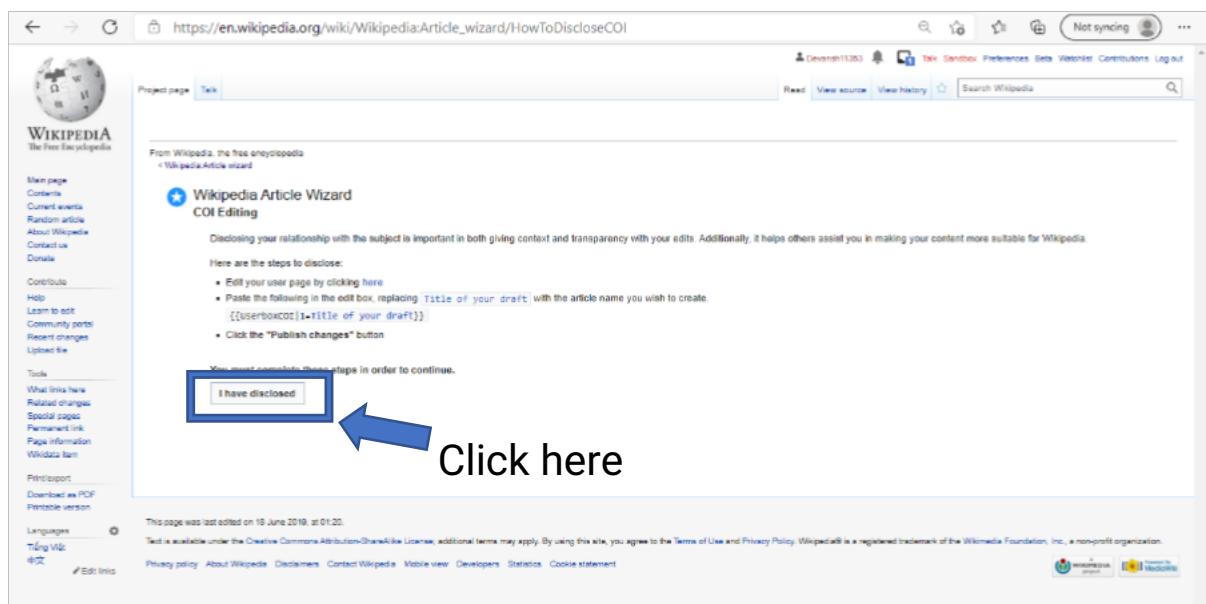
I'm writing about myself, or a close person/subject ← Click here

I'm not connected to the subject



Edit with WPS Office

7)



The screenshot shows a computer screen displaying the Wikipedia Article Wizard page at https://en.wikipedia.org/wiki/Wikipedia:Article_wizard/HowToDiscloseCOI. The page title is "Wikipedia Article Wizard" and the sub-section is "COI Editing". A callout bubble with the text "Click here" points to a blue rectangular button labeled "I have disclosed". The rest of the page contains instructions for disclosing conflicts of interest.

From Wikipedia, the free encyclopedia

Project page Talk

Not syncing

Read View source View history Search Wikipedia

Deverdinh1353

Wikipedia Article wizard

Wikipedia Article Wizard

COI Editing

Disclosing your relationship with the subject is important in both giving context and transparency with your edits. Additionally, it helps others assist you in making your content more suitable for Wikipedia.

Here are the steps to disclose:

- Edit your user page by clicking [here](#)
- Paste the following in the edit box, replacing "Title of your draft" with the article name you wish to create.
{{UserboxCOI|>Title of your draft}}
- Click the "Publish changes" button

You must complete these steps in order to continue.

I have disclosed

Click here

This page was last edited on 18 June 2019, at 01:20.

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Wikimedia Foundation

Wikipedia

8)

From Wikipedia, the free encyclopedia

Project page Talk

Read View source View history Search Wikipedia

Wikipedia Article Wizard
COI Editing

When having either a business or personal relationship with a subject there are a few things to keep in mind:

- You can request an article
- It's improbable when having a conflict of interest to write in a way that doesn't favor the subject unduly. However, you can always request the article be written by someone else. This will prevent you from introducing an intrinsic bias into the article, since a neutral party will be writing the article.
- You can also request edits
- Much like requesting a neutral party to make an article for you, you can also request another editor to make an edit on your behalf. More information on how to do so can be found [here](#).
- Stay transparent
- Be open about your connection with the subject. There are many editors on Wikipedia, and it's likely you'll interact with them in some way. Being transparent is an integral step in having other editors help you with your article.

Next

This page was last edited on 18 May 2019, at 08:30.
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Privacy policy About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

Print/export Download as PDF Portable version Languages Bosanski Cymraeg / Cymreig Tiếng Việt 中文

9) Type your page title in text box and click create new article.



Edit with WPS Office

From Wikipedia, the free encyclopedia

Wikipedia Article Wizard
Draft Creation

You're all ready to go! When you create your draft, it will not be seen by external search engines. However, when you finish, you'll be able to submit it to be reviewed by our volunteers. Reviews can take a long time, so please be patient and rest assured that your draft will be reviewed in due course. This may take 4 months or more, since drafts are reviewed in no specific order.

Devansh Vala

Create new article draft

This page was last edited on 19 July 2010, at 02:54.
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Privacy policy About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

Wikimedia projects | Wikipedia Mediawiki

10) Now you can type whatever you want to in your page.

Creating Draft:Devansh Vala

Wikipedia does not have a page with this exact title.

To start a page called Draft:Devansh Vala, type in the box below. When you are done, preview the page to check for errors and then publish it.

Field sources: Google Books news newspapers scholar free images (WP:refs) FENS JSTOR NYTF TIME

Content that violates any copyrights will be deleted. Encyclopedia's content must be verifiable. Any work submitted to Wikipedia can be edited, used, and redistributed—by anyone—subject to certain terms and conditions.

I am 18 year old
I studying in FGSSC IT an raggede Chandan College
Living in [Delhi](#) East Noida.

Sign your posts on talk pages: [~~~~~](#) Cite your sources: [\[edit\]](#)

Edit summary (Briefly describe your changes)

Watch this page Permanent

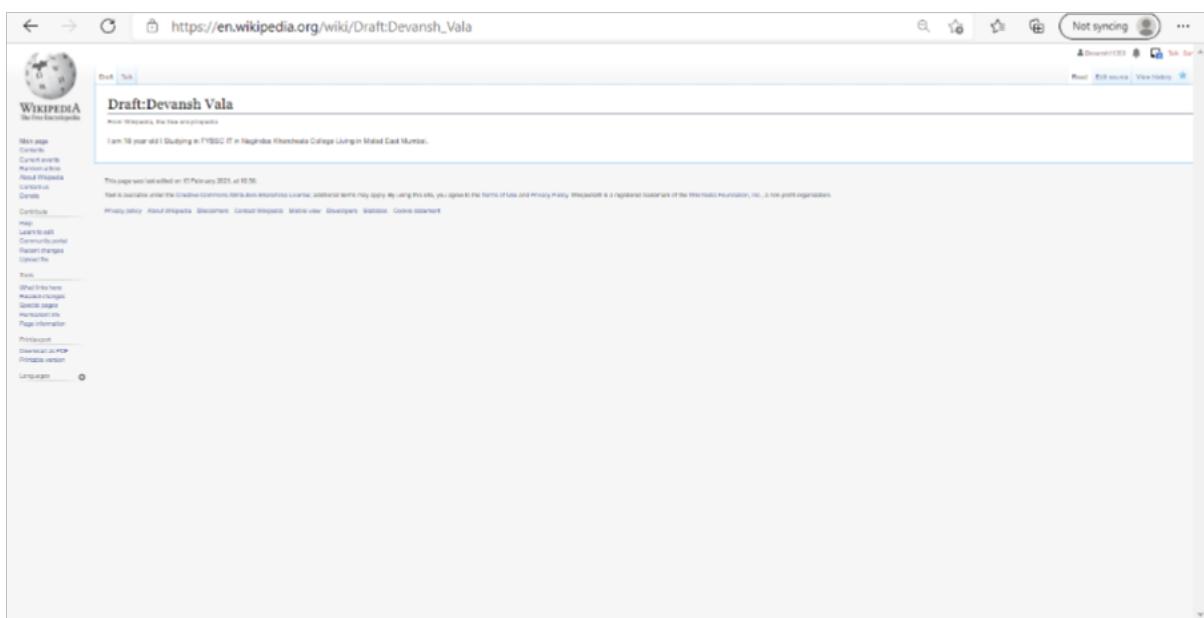
By publishing changes, you agree to the [Terms of Use](#), and you irrevocably agree to release your contribution under the [CC-BY-SA 3.0 License](#) and the [GFDL](#). You agree that a hyperlink or URL is sufficient attribution under the Creative Commons license.

Publish page Show preview Show changes Cancel



Edit with WPS Office

11) Your Page is Created.

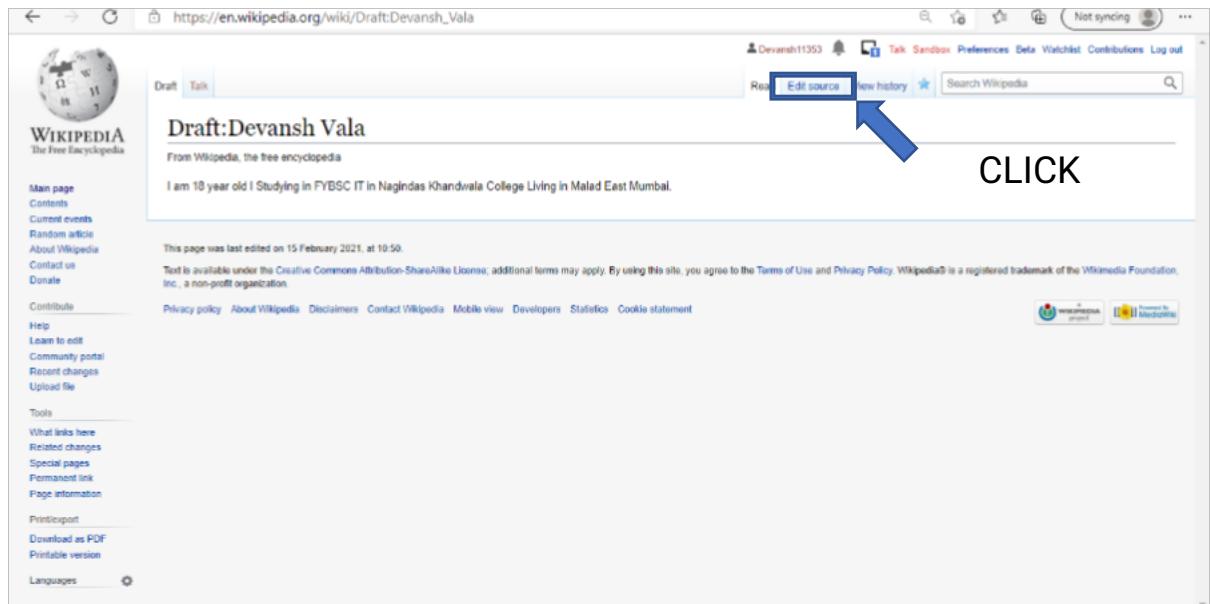


D) Editing Your Page:

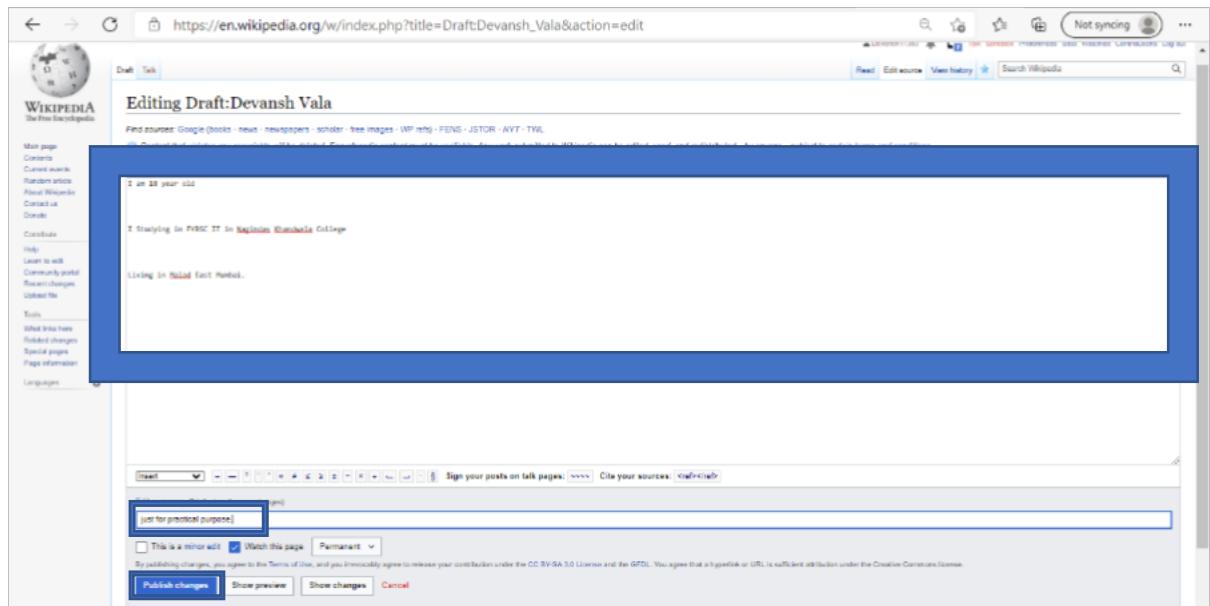
1) Click Edit Source



Edit with WPS Office



2) Edit Your Information, and fill Summary box, after editing Click Publish Page.



3) Your Page is Edited.

The screenshot shows a web browser displaying a Wikipedia draft page. The URL in the address bar is https://en.wikipedia.org/wiki/Draft:Devansh_Vala. The page title is "Draft:Devansh Vala". The content of the page is:

I am 18 year old.
I Studying in FYBSC IT in Nagindas Khandela College
Living in Mated East Mumbai.

Below the content, there is a note: "This page was last edited on 18 February 2021, at 11:03." and a link to the "Creative Commons Attribution-ShareAlike License". The page footer includes links to "Privacy policy", "About Wikipedia", "Disclaimers", "Contact Wikipedia", "Mobile view", "Statistics", and "Cookie statement". On the right side of the page, there are "Recent changes" and "Random article" links. The left sidebar contains a "WIKIPEDIA" logo, a search bar, and various navigation links such as "Main page", "Content", "Current events", "Random article", "About Wikipedia", "Contact us", "Drafts", "Categories", "Help", "Learn to edit", "Community portal", "Recent changes", "Upload file", "Tools", "What links here", "Related changes", "Special pages", "Permanent link", "Page information", "Print/export", "Download as PDF", "Portable version", and "Languages".



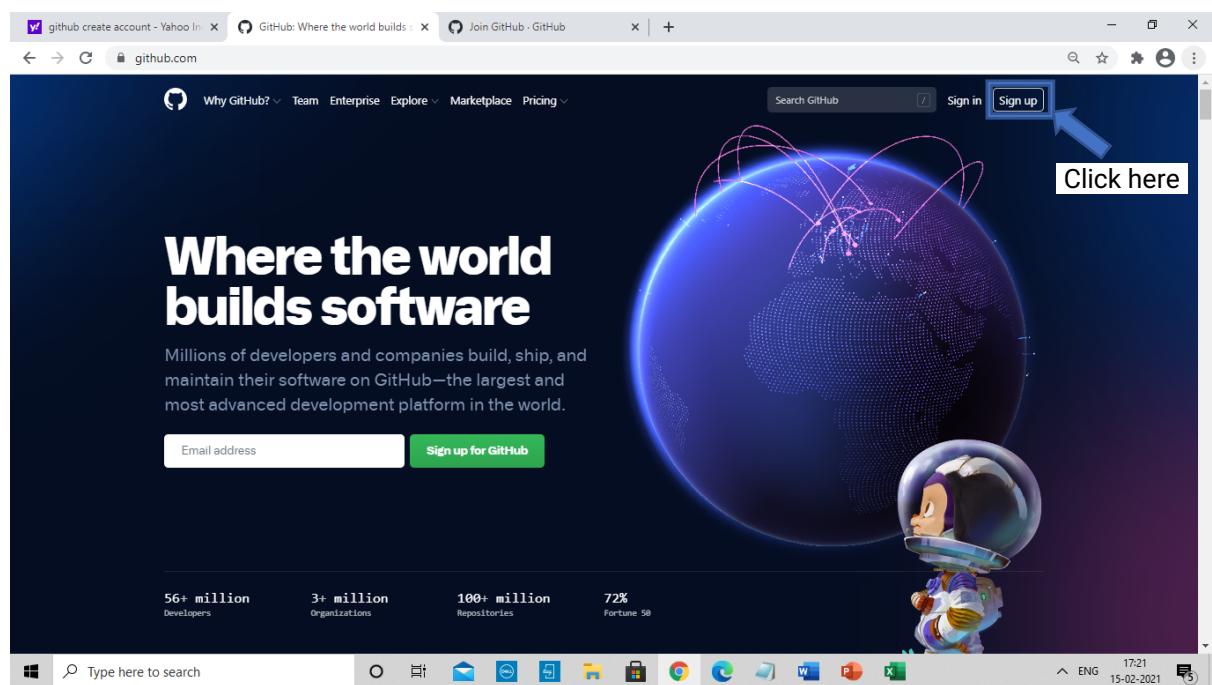
Edit with WPS Office

Practical:2

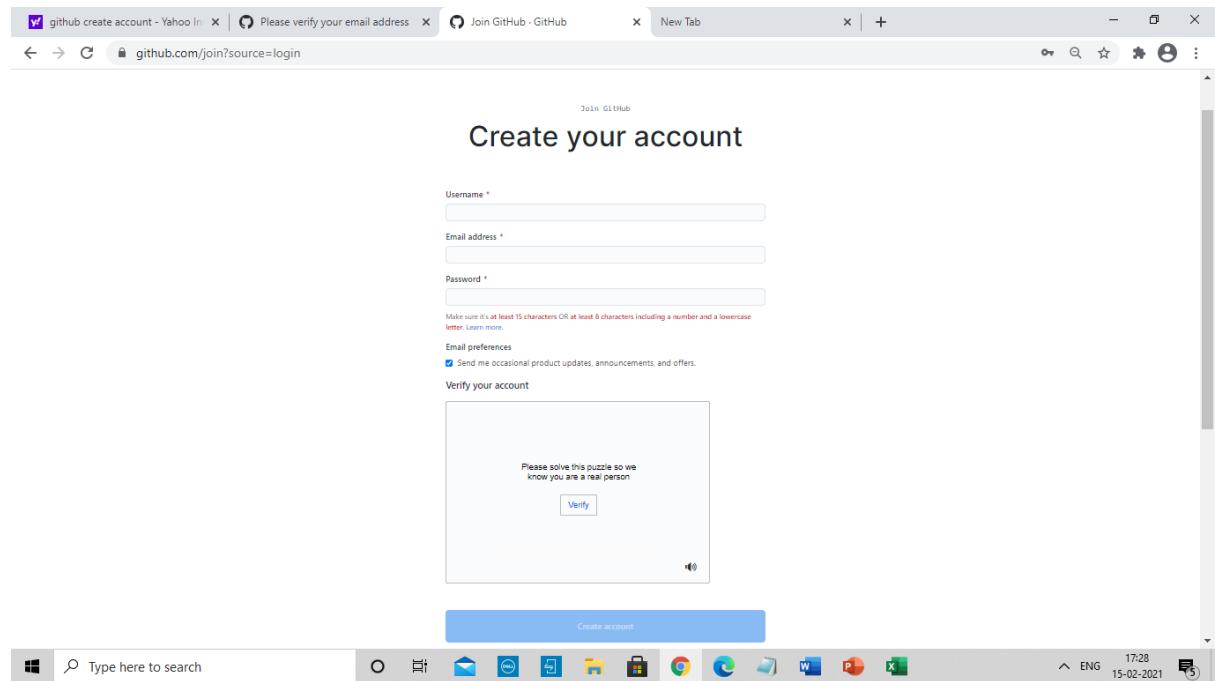
Creating account, repository on Github and cloning repository in Github.

A) Creating Account:

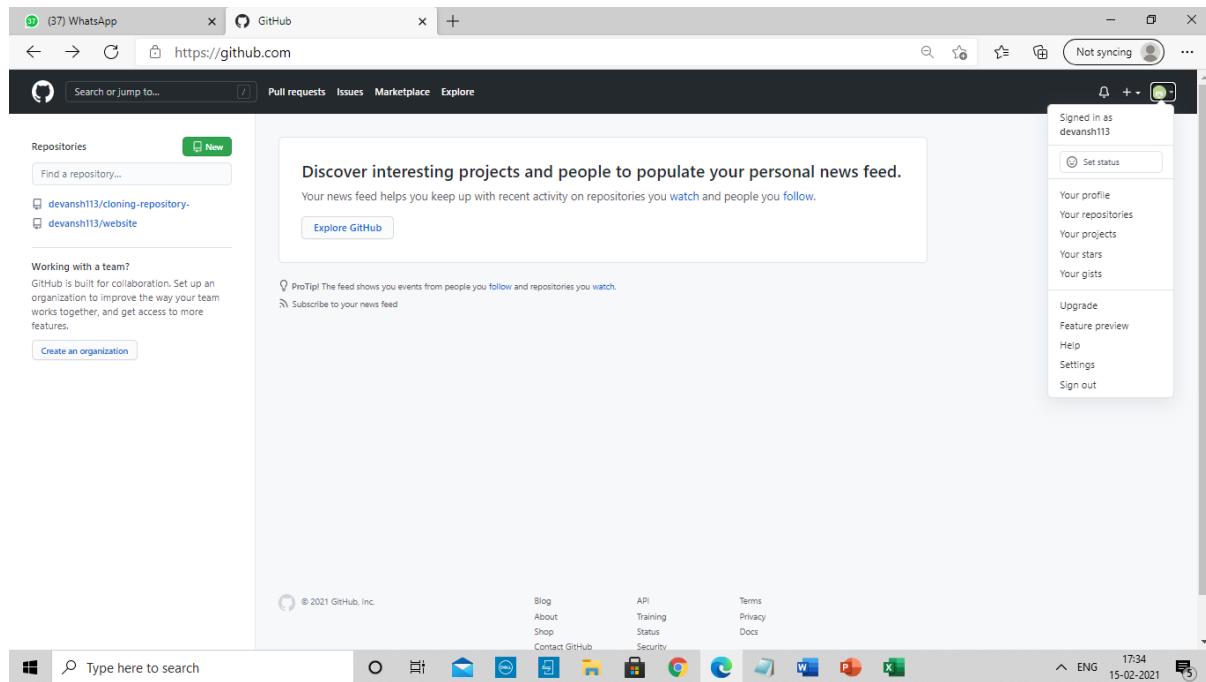
1) Click on Sign Up



2) Fill all the Username, Email id, password, verify the img and then click on create account.

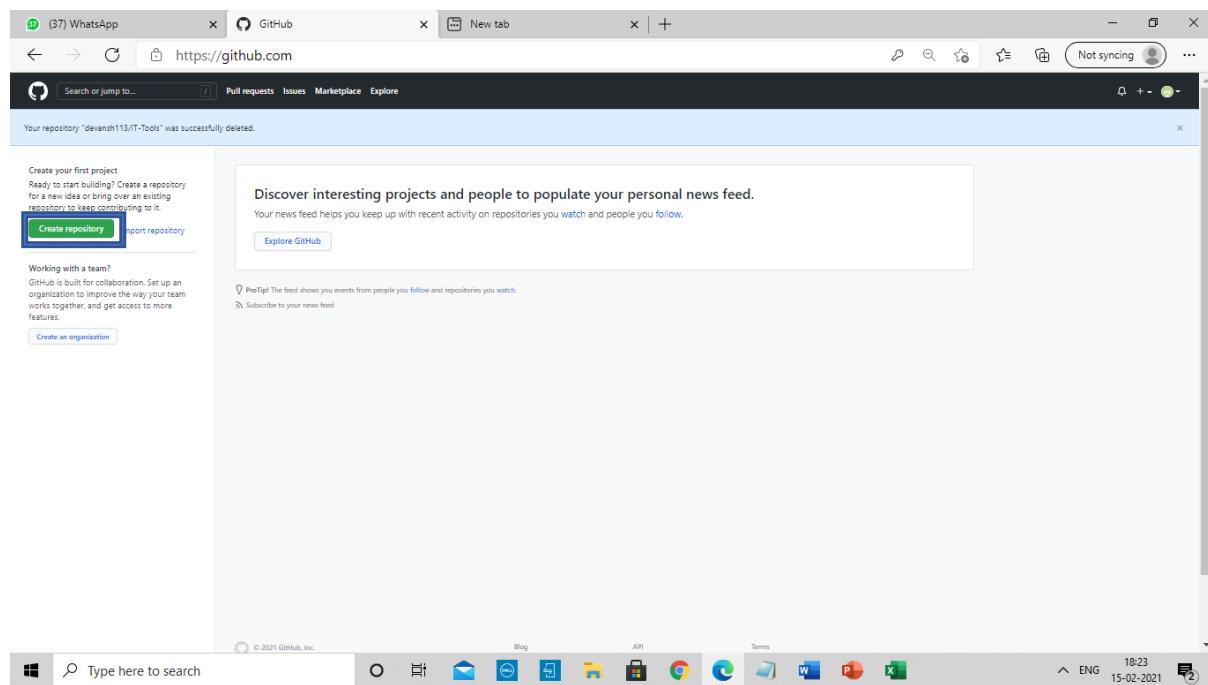


3) Account created.

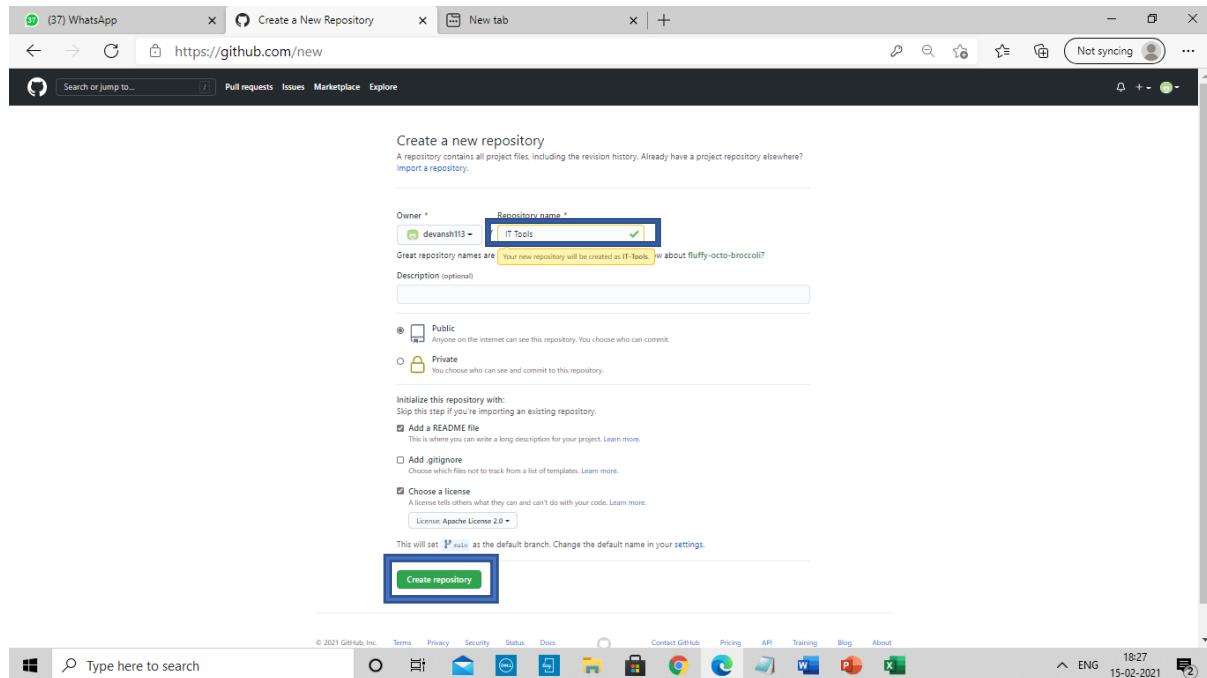


B] Creating Repository:

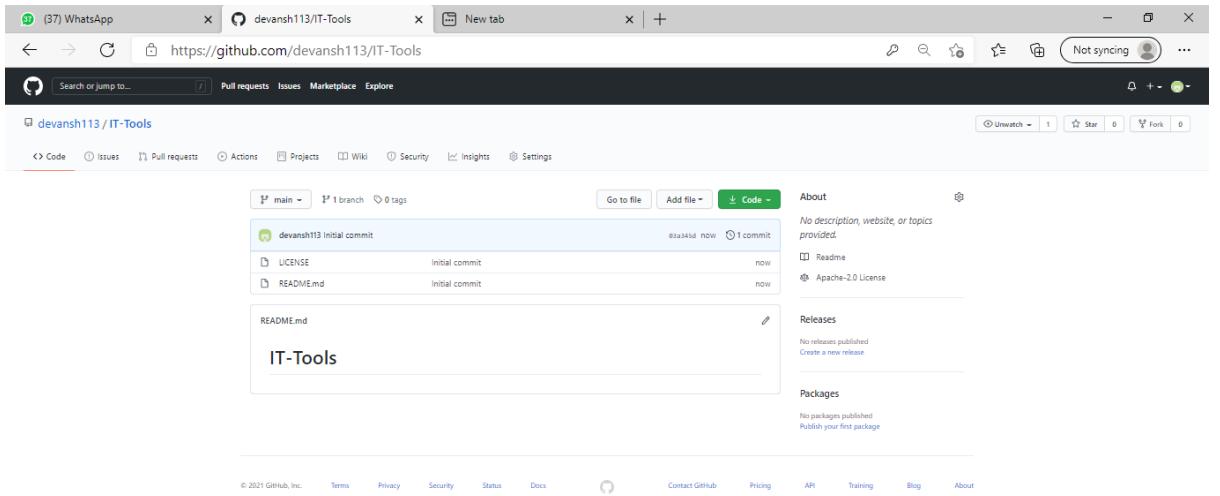
1) In the upper right corner, Click repository.



2) Name your repository. Select Initialize this repository with a README, and Click create repository.

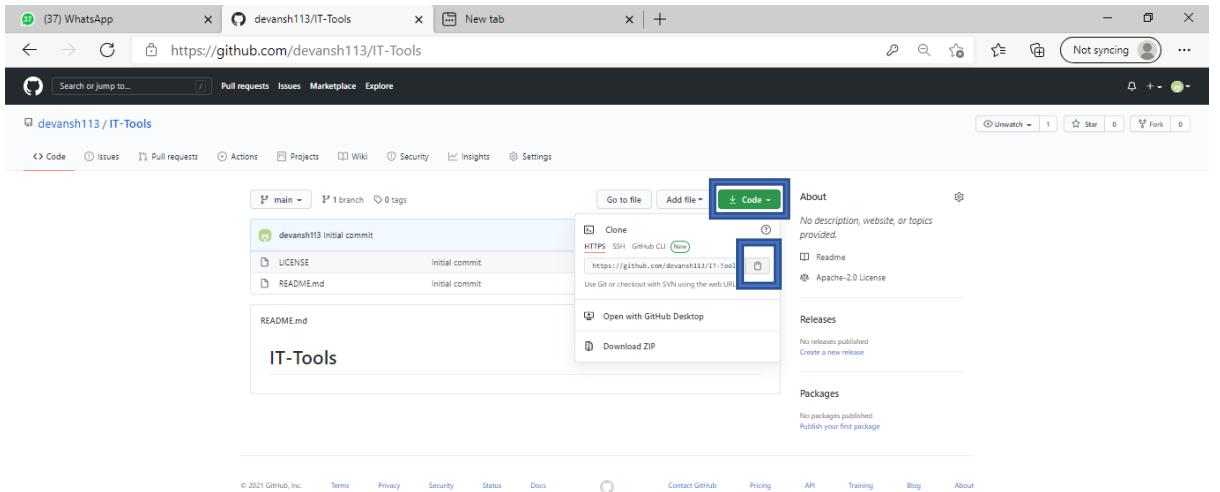


3) Repository Created.

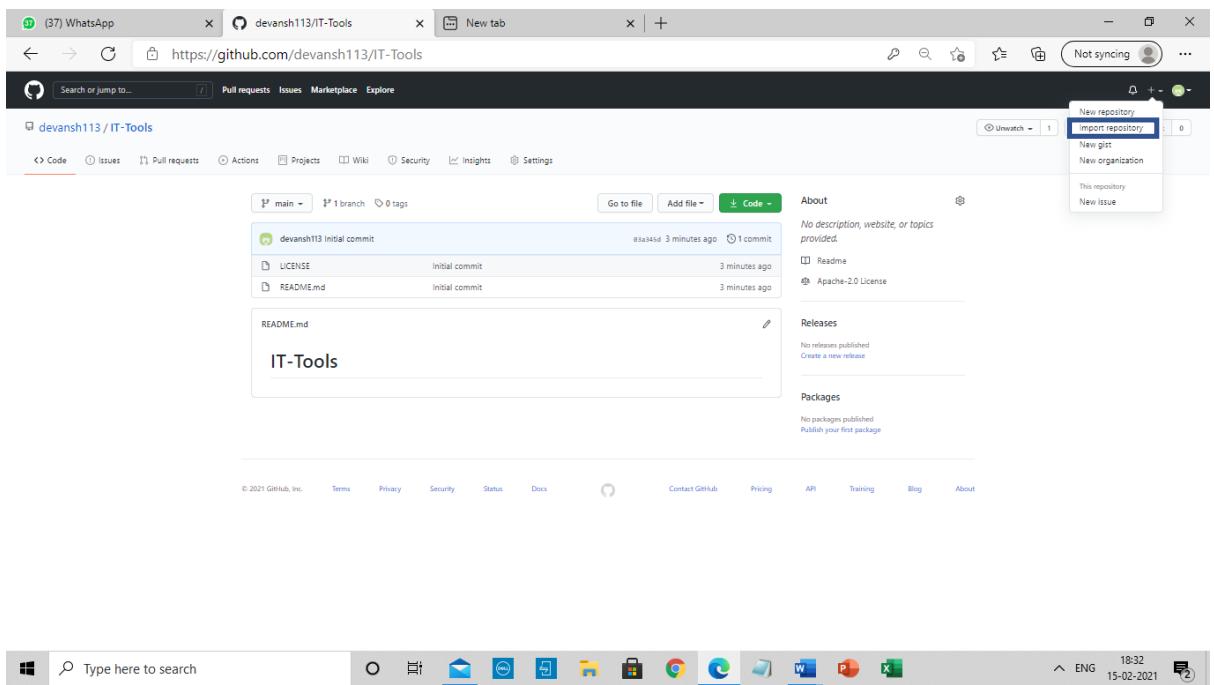


C] Cloning repository:

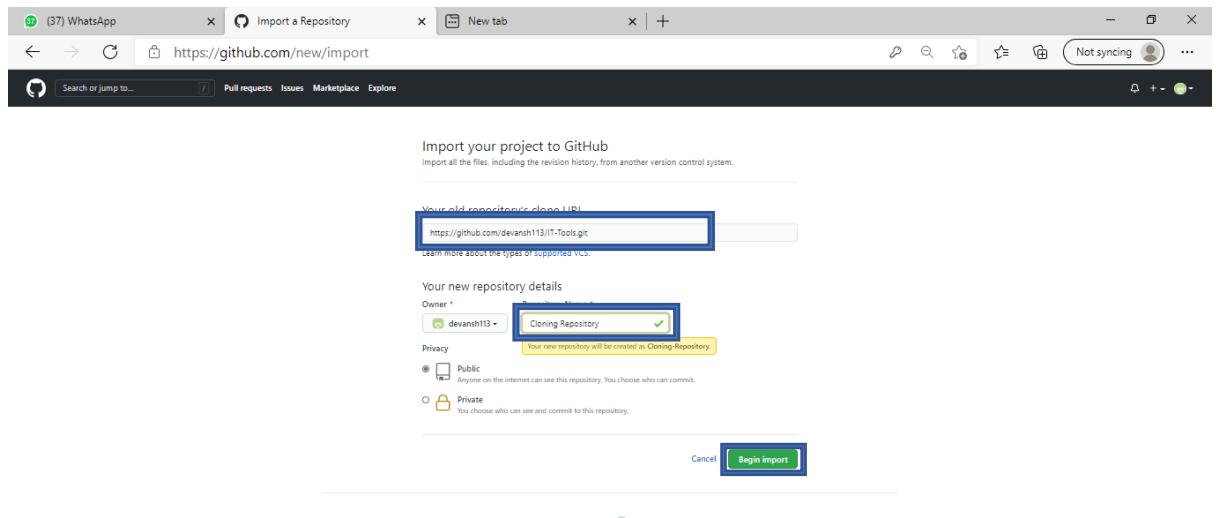
1) click Code. And copy the link.



2) Now Click Import repository.



3) Paste the link on box and click begin import.



Your repository cloning is successful.

PRACTICAL :- 3

BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

a) Describe Open Source Software with Example.

Open-source software (OSS) is any computer software that's distributed with its source code available for modification. That means it usually includes a license for programmers to change the software in any way they choose: They can fix bugs, improve functions, or adapt the software to suit their own needs.

Open-source software is a type of 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.

Example :

Firefox - A Web browser that competes with Internet Explorer.

Zimbra - open source e-mail software that competes with Outlook server.

VLC Media Player - VLC Media Player is one of the most popular open source software examples that you can use for free.

Linux - Linux is one of the most user-friendly open source software on the market.

b) Describe Free Software with Example.

Free software is software that can be freely used, modified, and redistributed with only one restriction: any redistributed version of the software must be distributed with the original terms of free use, modification, and distribution.

The definition of free software is stipulated as part of the GNU Project and by the Free Software Foundation. Free software may be packaged and distributed for a fee; the "free" refers to the ability to reuse it, modified or unmodified, as part of another software package. As part of the ability to modify, users of free software may also have access to and study the source code.

Free software is easily confused with freeware, a term describing software that can be freely downloaded and used but which may contain restrictions for modification and reuse.

Example :

The Linux kernel - The Linux kernel is protected by the GPL, and is used daily by millions of people throughout the world.

Apache - Apache is the most widely used web server in the world.

Gimp - Gimp is a powerful bitmap mode digital creation program.

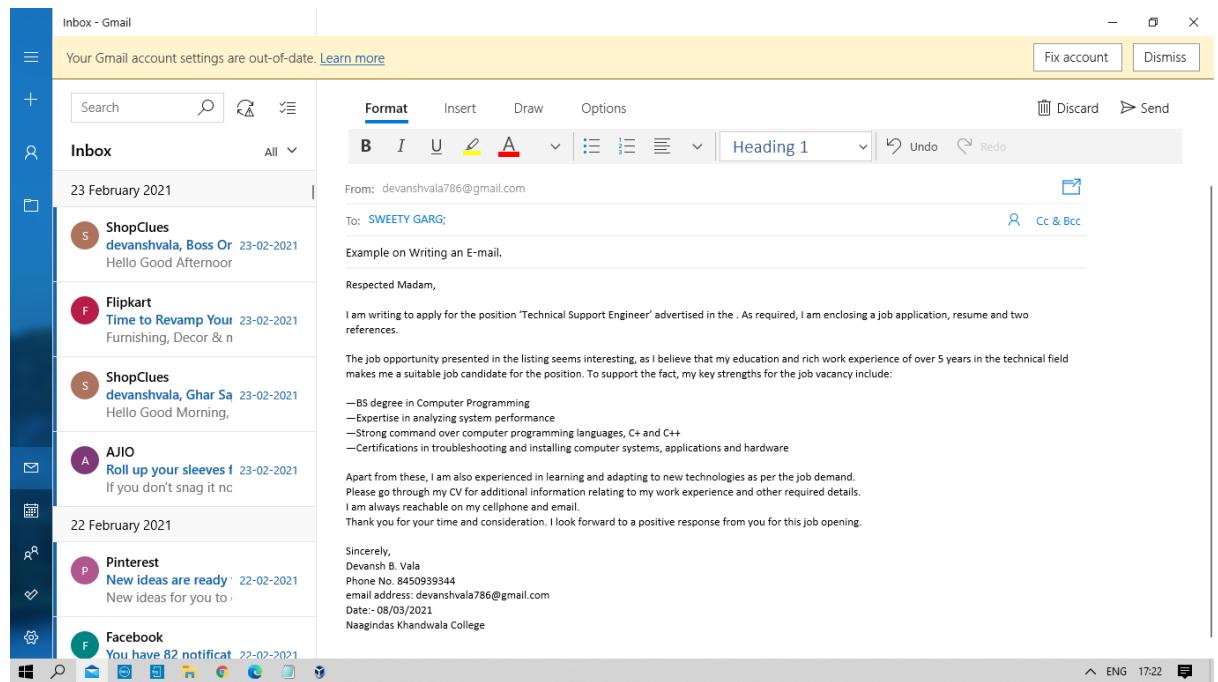
PostgreSQL - PostgreSQL is an object-relational database.

c) Difference between Free and Open Source Software.

Sr No.	Free Source Software	Open Source Software
1.	freeware refers to a software that you can use without incurring any costs.	Open source commonly refers to software that uses an open development process and is licensed to include the source code.
2.	Software freedom translates to social freedom.	Ethics are to be associated to the people not to the software.
3.	Free Software is Open Source Software.	Open Source software may not necessarily be Free Software.
4.	Free Software cannot work with other proprietary software.	Open Source software can work with other proprietary software.
5.	Examples: The Free Software Directory maintains a large database of free-software packages.	Examples: Open-Source Software are the Apache HTTP Server, Mozilla Firefox, Google Chrome.

Practical – 4

- E-mail writing :-



PRACTICAL 5

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

DESCRIBING 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.

The strategies of Green computing have decreased the consumption of overhead energy

and have used the server maximum through a strategy including server virtualization. But

technology trends, such as increase in data analytics and artificial intelligence, can reduce

pro-in green computing strategies.

Examples of Green Computing

- 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 center, is planning to use most of the building's wind turbine technology, and Google has already built a wind-powered data center.

At the most simple level, green computing is not a rocket science and certainly does not require large amounts of cash in case of up-front investment. As stated above, the active step for a green computing



takes a little effort, yet low energy consumption usually changes to immediate savings.

Steps that we can take to contribute to green computing:

1) Power down when not in use seems simple but many of us powered up for a long time

when not in use a large sum of power is being wasted, so if you're not using the computer

press the power button to shut it off until needed. This can be done even if the computer is

working on something. Screensavers do not save power. Same goes for computers, you

don't have to shut it down completely if you don't want to reboot, just use sleep or

hibernation mode. This will help save energy and keep the system to its current state

when you need it again.

2) Use the power saving features. All computers include power saving options.

Using these features you can command the computer to do various energy-saving

Tasks automatically, including shutting off un-used hard disks, powering off a monitor

after a given time or even placing the computer into sleep mode when not in use. This is

very useful on laptops to help preserve battery life.

3) Purchase energy saving hardware If you don't need super-fast computing power then

look out for energy efficient components when buying a new computer, such as green

hard drives and low-energy processors. While performance is slower they can use

remarkably less power. Purchasing an energy saving power supply unit for a desktop



PC can help the environment and save money, they're often quieter too.

4) Use a laptop instead of desktop Laptops are much better for the environment than

desktop computers as they have components which require less power. If you don't need

a desktop computer consider buying a laptop instead, or if you have both use the laptop

as much as possible before considering the desktop.

5) Recycle responsibly Computer hardware is filled with different material which can be

hazardous to the environment so make sure you dispose of old components effectively.

Don't just throw broken technology in the bin, take the time to trace local recycling

organizations. There should be companies which can remove the metals which may fix or

furnish items. You should check with your local authorities to find out what facilities

they offer for safe disposal of old computing parts.



PRACTICAL 6

WRITING BLOGS

1. Open [blogger.com](https://www.blogger.com) website.

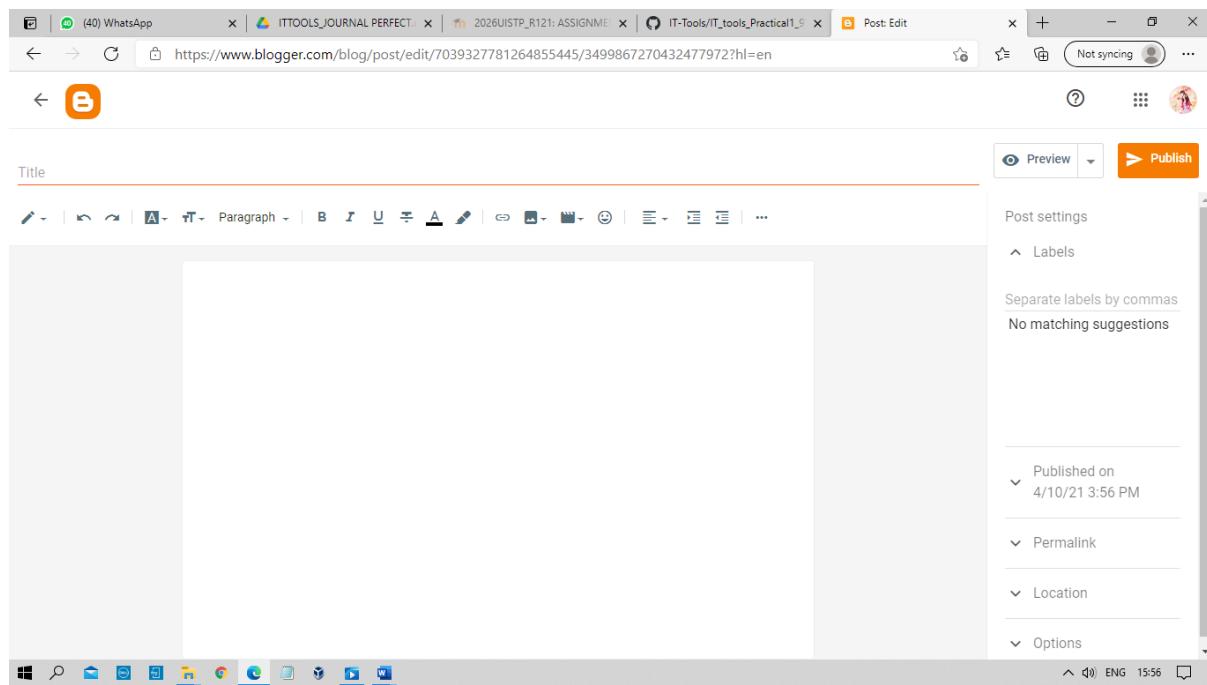


2. Choose an account for doing further process.

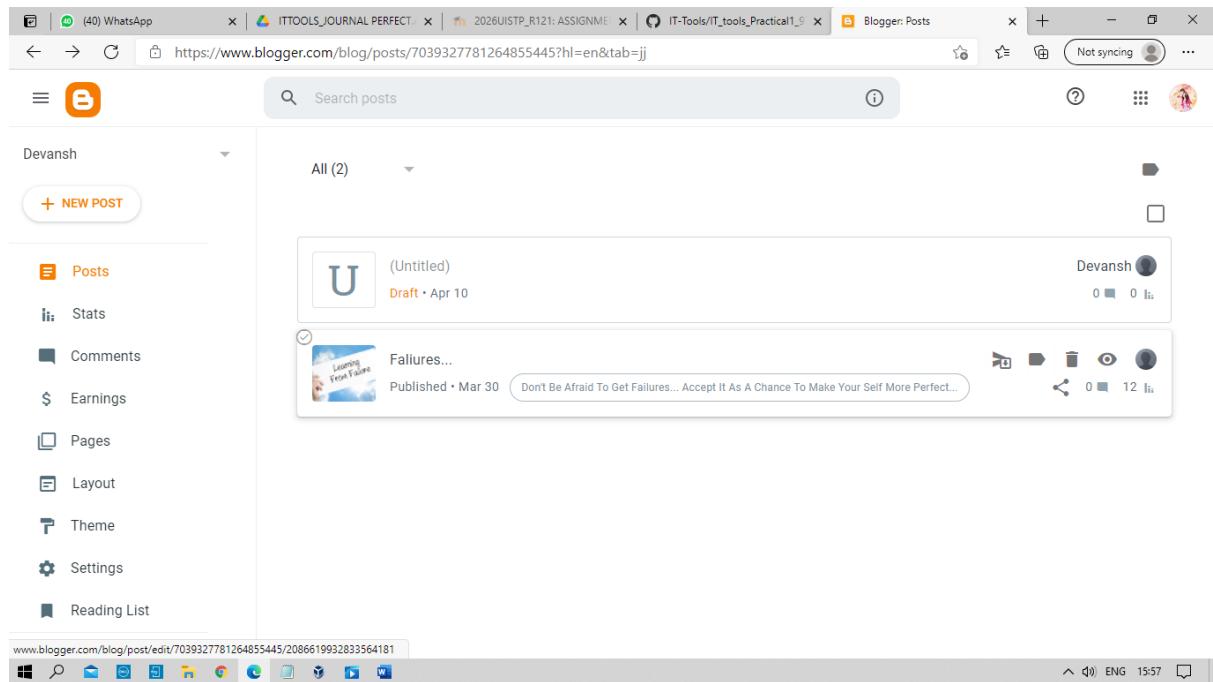
3. After Choosing account, set a password

4. Write a name for your blog.

5. Write a url from which anyone can see your blog through that link

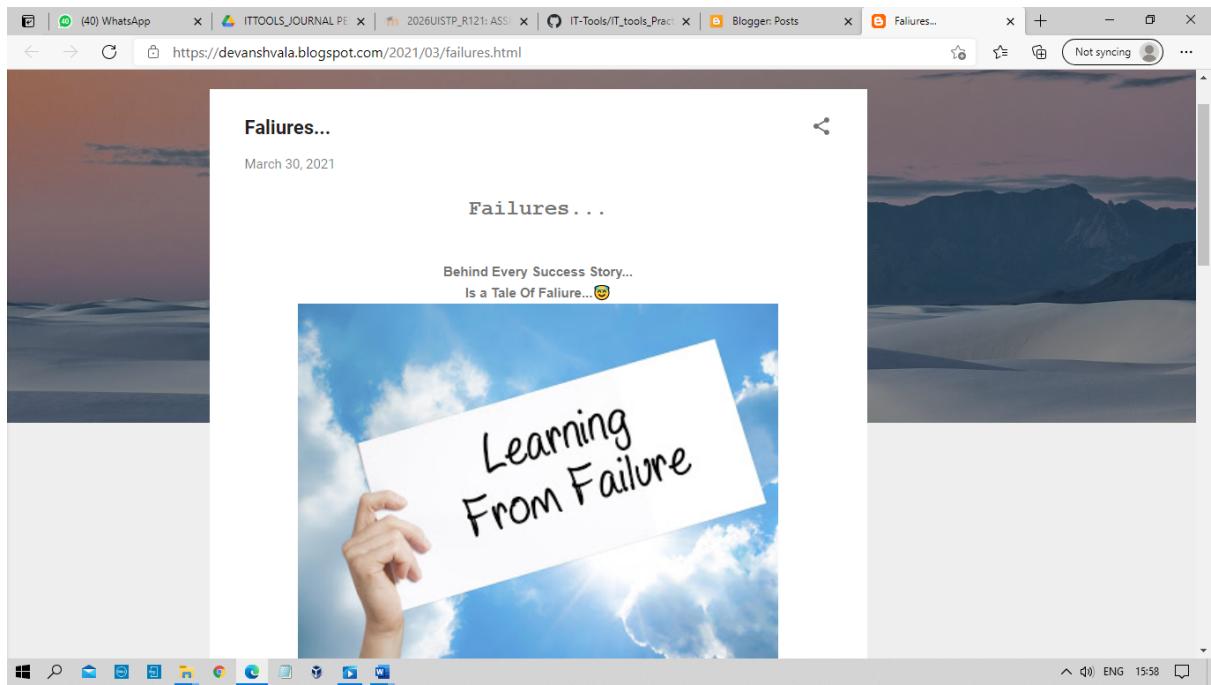


6. This page will open when all process will complete. From here you can start creating your wonderful blog.



8. You can also see preview that how your blog looks like.

9. Example of blog.



PRACTICAL 7

Implementing coding practices in Python using PEP8.

As Guido van Rossum said, "Code is read much more often than it is written." You may

spend a few minutes, or a whole day, writing a piece of code to process user authentication. Once you've written it, you're never going to write it again. But you'll

definitely have to read it again. That piece of code might remain part of a project you're

working on. Every time you go back to that file, you'll have to remember what that

code does and why you wrote it, so readability matters. PEP stands for Python

Enhancement Proposal, and there are several of them. A PEP is a document that describes new features proposed for Python and documents aspects of Python, like

design and style, for the community. Writing clear, readable code shows professionalism.

It'll tell an employer that you understand how to structure your code well. If you have

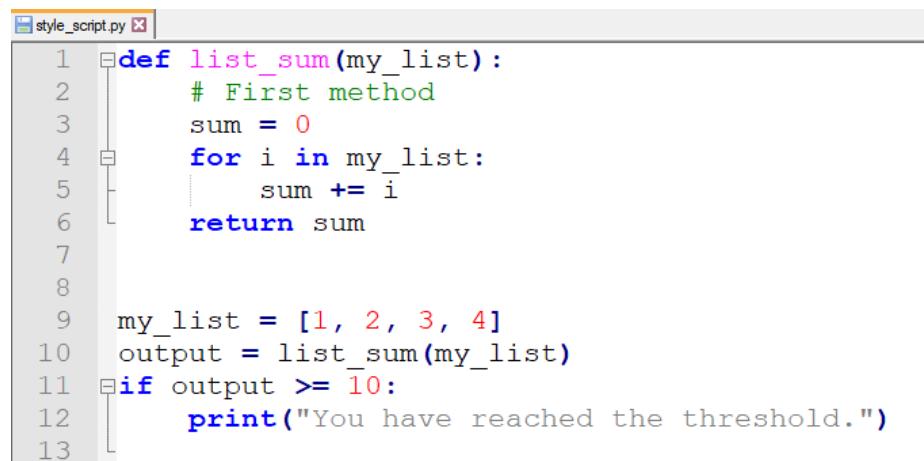
more experience writing Python code, then you may need to collaborate with others.

Writing readable code here is crucial. Other people, who may have never met you or seen

your coding style before, follow and recognize will make it easier for others to read your

code.

Coding using PEP 8:



```
style_script.py
1 def list_sum(my_list):
2     # First method
3     sum = 0
4     for i in my_list:
5         sum += i
6     return sum
7
8
9     my_list = [1, 2, 3, 4]
10    output = list_sum(my_list)
11    if output >= 10:
12        print("You have reached the threshold.")
```

Another Example:

```
21 gender = []
22 reading_scores = []
23 writing_scores = []
24 math_scores = []
25
26 for row in data:
27     reading_scores.append(int(row["reading score"]))
28     writing_scores.append(int(row["writing score"]))
29     math_scores.append(int(row["math score"]))
30
31     if row["gender"] == "female":
32         gender.append(1)
33     elif row["gender"] == "male":
34         gender.append(2)
```



Overview

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Green IT Adoption Trends: An Overview

- This report divides 11 Green IT initiatives into four major groups:
 - ✉ Virtualization and Consolidation
 - ✉ Energy Efficiency
 - ✉ Travel Reduction
 - ✉ Asset Disposal.



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Four major groups:

- ☒ Virtualization & Consolidation:

Initiatives in this area include server virtualization and consolidation, storage consolidation and desktop virtualization. These projects typically improve cost and energy efficiency through optimized use of existing and new computing and storage capacity, electricity, cooling, ventilation and real estate.

- ☒ Energy Efficiency:

Initiatives in this area include server room upgrades and new builds, IT energy measurement, printer consolidation, and PC power management. These projects have energy efficiency or reduction as a major cost savings benefit.

- ☒ Travel Reduction:

Initiatives in this area include remote conferencing & collaboration and telecommuting. These projects are typically associated with reductions in travel, fuel and commuting costs.

- ☒ Asset Disposal:

IT equipment recycling is the lone initiative in this category.



- Half the companies who participated in this study are either piloting or implementing at least one of the 11 Green IT initiatives.
- By and large, the most commonly adopted initiatives involve major cost savings up-front, with fewer major investments required.
- The most popular initiatives across the board include storage consolidation, remote conferencing and telecommuting, all of which yield immediate cost reduction benefits to the business if implemented correctly



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Study and methodology

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Study of green It companies

- Recently, green technology has become an attraction to researchers in engineering, manufacturing, material science, chemical engineering, environment science and energy areas.
- Engineering is the most widely discussed research area covering the green technology.



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Methodology

- ☒ The paper gives the survey of green manufacturing, what is green manufacturing why it is needed and methods of green manufacturing that reduces the waste and even pollution.
- ☒ The paper focus on the green design for environment of green manufacturing system, energy conservation, development of product with less wastage.



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Energy Efficiency

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Energy Efficiency

- ⦿ Green Computing is a recent trend towards designing, building, and operating computer systems to be energy efficient.
- ⦿ The goals are to maximize energy efficiency during the product's lifetime, reduce the use of hazardous materials
- ⦿ It Promote recyclability or biodegradability of defunct products and factory waste



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Advantages

- ❑ The many benefits of energy efficiency include: Environmental:
- ❑ Increased efficiency can lower greenhouse gas (GHG) emissions and other pollutants, as well as decrease water use.



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Disadvantage

- ☒ For large firms, many efficiency investments are too small to be attractive because of high transaction costs of the cost of energy-efficient equipment.
- ☒ The conventional method used to conserve genetic resources of date palm has been supplemented in recent years by rapid developments in plant biotechnology.



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The following are examples of energy efficiency.

- ☒ Reuse
- ☒ Resource Utilization
- ☒ Efficient Design
- ☒ Maintenance
- ☒ Waste Reduction



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Laws of nature

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HAVE WE BECOME SEPARATE FROM NATURE?



NATURE AS A RESOURCE?

An aerial photograph showing a large, irregularly shaped area of brown, deforested land on the left, contrasting sharply with the dense green forest on the right. The boundary between the two is a jagged line where trees have been cut down.

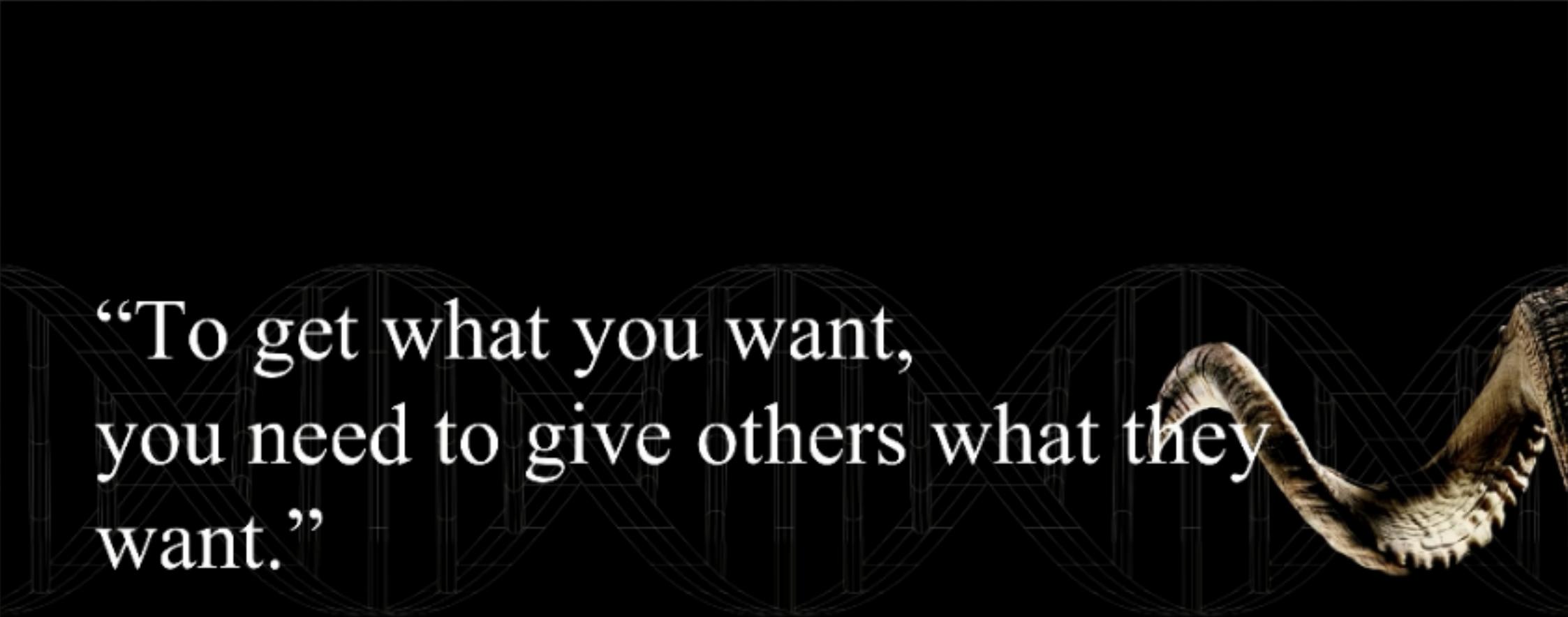
LIMITED

UNLIMITED

3 NATURAL LAWS:

Symbiosis
Sustainability
Adaptation





“To get what you want,
you need to give others what they
want.”

The heart of symbiosis in an eco-system.





TRAVEL REDUCTION

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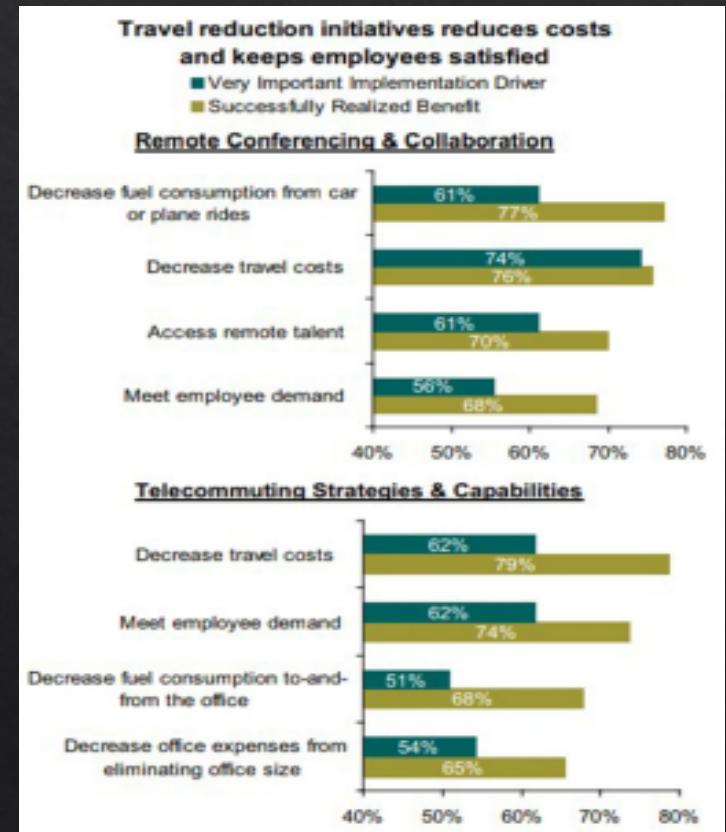
TRAVEL REDUCTION

⦿ Remote configuration & Telecommuting Strategies

⦿ Remote configuration and collaboration:-

⦿ Telecommuting Strategy and Capabilities:-

Policies and strategies allowing or encouraging employees to Work from home.



☒ CUTTING TRAVEL COSTS WHERE IT COUNTS

These initiatives not only reduce costs of fuel, flights, hotels and related expenses, but also result in higher employee satisfaction.

☒ Keeping Your People Happy

Organization are also gaining access to remote talent that they otherwise would not be able to tap. In two-thirds of all travel reduction project Organization reports their employees are very satisfied with the increased flexibility they are now offered.



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Green Supply Chain Management Initiatives

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Green Supply Chain Management Initiatives

- Green Supply Chain Management aims to integrate environmental thinking into supply chain management.
- This includes product design, material sourcing and selection, the manufacturing process and delivery of the final product to consumers.
- Approximately 2 million tons of e-waste are generated annually in India.
- The management of e-waste and implementation of green initiatives to manage the supply chains have become imperative for Indian IT and electronics industry.
- They are innovating and coming up with cutting edge solutions that help them become



HCL Infosystems Limited



- HCL Infosystems Ltd. is India's premier hardware, services and ICT systems integration company, which offers a wide spectrum of ICT products that include computing, storage, networking, security, telecommunication, imaging and retail solutions
- HCL always focused on developing a sustainable future through environment friendly ICT products and services.
- This led to the introduction of Green desktops, equipped with the unique Dynamic Energy Saver (DES) technology, that cut overall power consumption by 20-35%.
- The company has also taken the following initiatives to conserve energy:
 - Use of recyclable packing materials in PCs and monitors.
 - Made S3 as the default sleep state in all products shipped with Microsoft Windows OS, so that the product automatically switches to standby mode after a specified amount of system inactivity.
 - Compliance with MPR-II certification for CRT monitors.
 - Compliance with TCO'03 certification for LCD monitors.



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Tata Consultancy Services

- ⦿ Tata Consultancy Services (TCS) Limited is one of the best Indian IT services, consulting and business solutions organizations.
- ⦿ It is committed to measure, report and continually improve its overall environmental performance by optimizing its resource consumption, minimizing its ecological impact and in line with the precautionary principle espoused by Article 15 of the Rio Declaration, working to reduce its carbon footprint.
- ⦿ TCS has developed an environment policy that guides its key activities. The basic foundation of the policy is:
 - ⦿ Climate change mitigation through commitment to reduce Greenhouse Gas (GHG) emissions and corresponding carbon footprint.
 - ⦿ Green procurement.
 - ⦿ Reduce, reuse, recycle.
 - ⦿ Resource efficiency.
 - ⦿ Green infrastructure – green buildings.
 - ⦿ Green IT.

IT EQUIPMENT RECYCLING



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Roll number: 114

Class : fyit

IMPORTANCE OF ELECTRONIC RECYCLING



- Rich source of raw materials
- Solid waste management
- Toxic materials
- International movement of hazardous waste

E-waste



- ⊖ E waste in electrical electronic equipment that has been discarded working and broken items that are thrown in in the garbage aur donated to the charity reseller like goodwill.
- ⊖ E-waste is particularly dangerous due to toxic chemical that naturally from the metals inside when buried.

Disadvantages of going green

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Disadvantages of going green

1. Expenses :
2. Data Safety is important :
3. Dearness
4. Customer backlash



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Disadvantages of going green

5. Is it worth it?

6. Competition

7. Marginal impact



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Green It emissions and Green It typical dimensions

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- ❑ Green It

- ❑ Virtualization And Consolidation

- ❑ Energy Efficiency



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- ☒ Asset Disposal
- ☒ Factors During Implementation
- ☒ Green It Outcomes



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