



**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. NITESH PRATAPSING VASAVE

Roll No: 143 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.

External Examiner

**Subject-In-Charge
(Ms.Sweety Garg)**

Date of Examination: (College Stamp)

Name: NITESH PRATAPSING VASAVE
FYBsc.IT

Roll No: 143

Sr. No.	DATE	TITLE	SIGN
1.	02/02/2021	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.	09/02/2021	Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.	16/02/2021	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.	23/02/2021	WRITING EMAIL	
5.	25/02/2021	Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.	02/03/2021	WRITING BLOGS	
7.	09/03/2021	Implementing coding practices in Python using PEP8.	
8.		PRESENTATION:Green IT company and vendors .	

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.

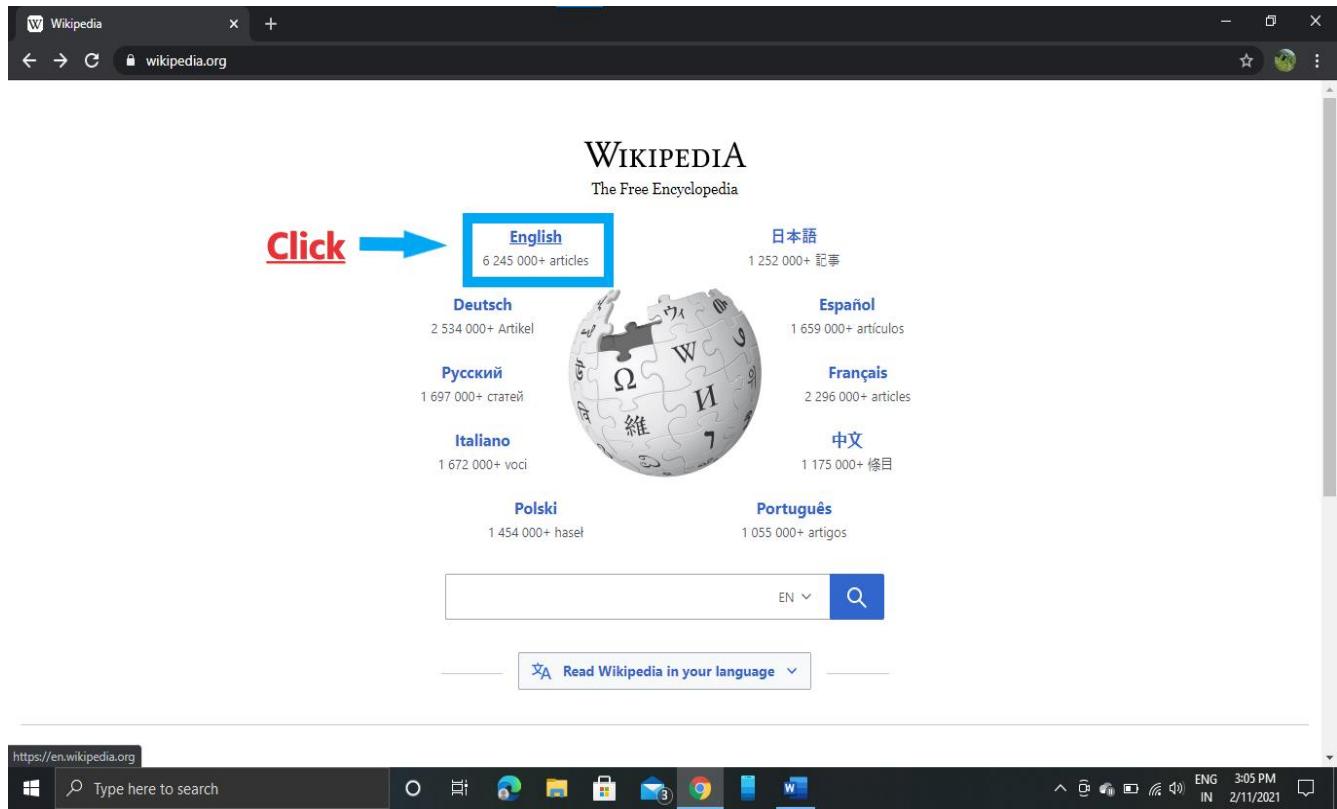
In addition to the encyclopedia, the non-profit Wikipedia foundation oversees several other open-content projects, including:

- 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.

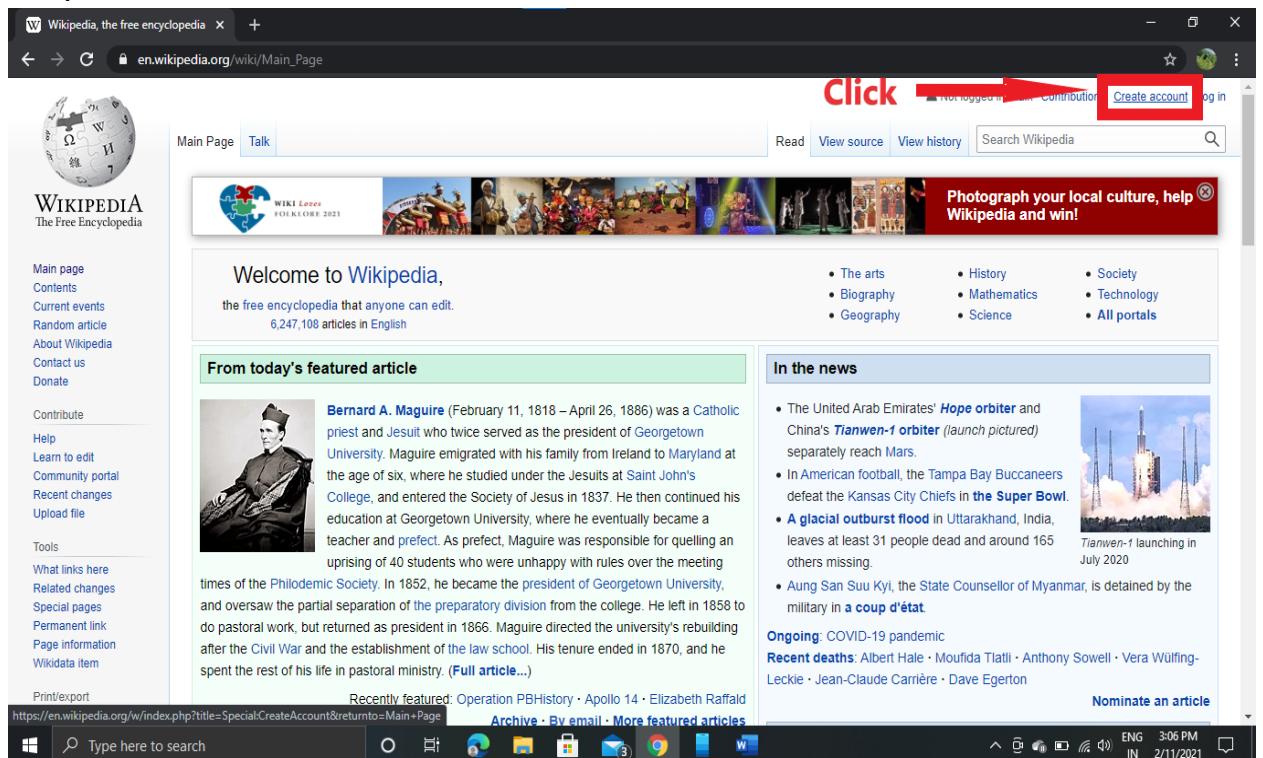
Wikipedia was one of the first social media websites.

B] Creating Account on Wikipedia.

➤ Step 1:



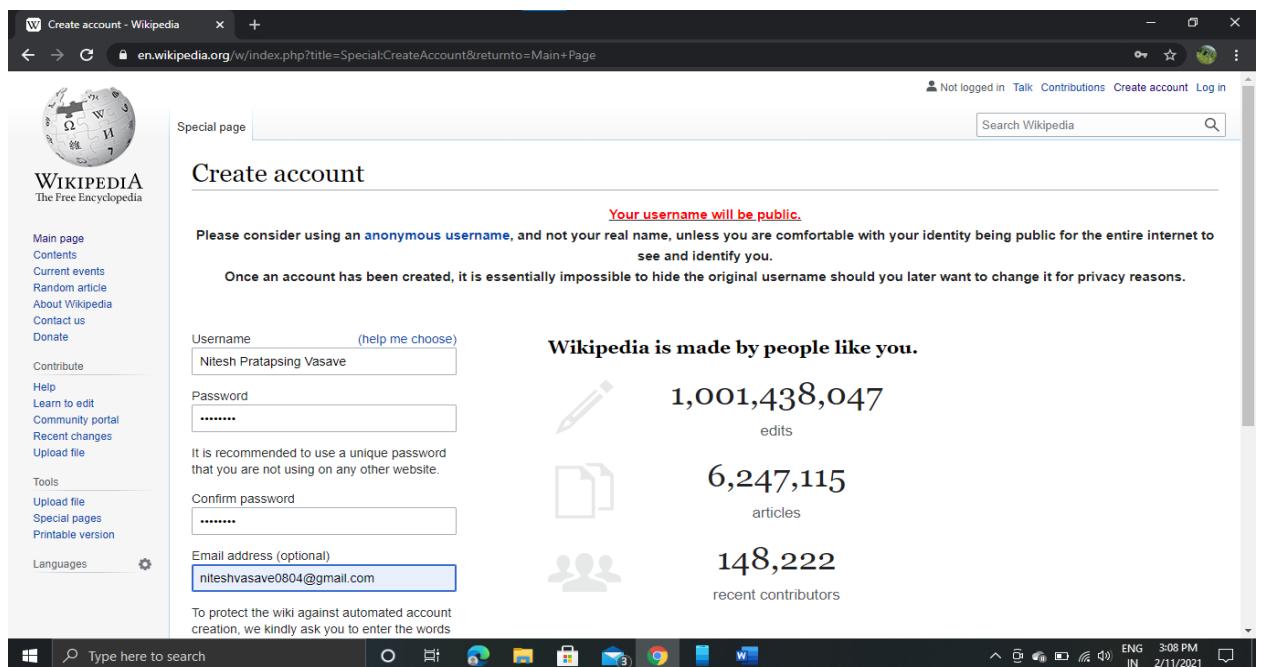
➤ Step 2:



The screenshot shows a Microsoft Edge browser window on a Windows 10 desktop. The address bar displays 'en.wikipedia.org/wiki/Main_Page'. The Wikipedia main page is loaded, featuring the iconic globe logo and the heading 'Welcome to Wikipedia, the free encyclopedia that anyone can edit.' Below this, there's a 'From today's featured article' section about Bernard A. Maguire. To the right, there's a 'Photograph your local culture, help Wikipedia and win!' banner and a 'In the news' sidebar with various global headlines. The taskbar at the bottom shows the Start button, a search bar, and several pinned icons. The system tray indicates the date as 2/11/2021 and the time as 3:06 PM.

➤ Step 3:

Fill all required data.(Username, Password, Email Id,)and type the captcha and click CREATE YOUR ACOOUNT.



The screenshot shows a Microsoft Edge browser window on a Windows 10 desktop. The address bar displays 'en.wikipedia.org/w/index.php?title=Special>CreateAccount&returnto=Main+Page'. The page title is 'Create account'. It contains a note: '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.' Below this, there are input fields for 'Username' (containing 'Nitesh Pratapsing Vasave'), 'Password' (containing '*****'), 'Confirm password' (containing '*****'), and 'Email address (optional)' (containing 'niteshvasave0804@gmail.com'). At the bottom, there's a CAPTCHA field with the text 'To protect the wiki against automated account creation, we kindly ask you to enter the words' followed by a string of characters. To the right, there's a summary: 'Wikipedia is made by people like you.' with statistics: '1,001,438,047 edits', '6,247,115 articles', and '148,222 recent contributors'. The taskbar at the bottom shows the Start button, a search bar, and several pinned icons. The system tray indicates the date as 2/11/2021 and the time as 3:08 PM.

Create account - Wikipedia

en.wikipedia.org/w/index.php?title=Special>CreateAccount&returnto>Main+Page

Learn to edit
Community portal
Recent changes
Upload file

Tools
Upload file
Special pages
Printable version

Languages

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

Confirm password

Email address (optional)
niteshvasave0804@gmail.com

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

trumprimed

txumpmired

Can't see the image? Request an account

Create your account

Click

1,001,456,047 edits
6,247,115 articles
148,222 recent contributors

Privacy policy About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

Powered by Wikimedia project

Click

➤ Your Account is Created:

Wikipedia, the free encyclopedia

en.wikipedia.org/w/index.php?title=Main_Page&gettingStartedReturn=true

Nitesh Pratapsing Vasave Talk Sandbox Preferences Beta Watchlist Contributions Log out

Main Page Talk Read View source View history Search Wikipedia

Welcome to Wikipedia,

the free encyclopedia that anyone can edit.

6,247,116 articles in English

From today's featured article



Bernard A. Maguire (February 11, 1818 – April 26, 1886) was a Catholic priest and Jesuit who twice served as the president of Georgetown University. Maguire emigrated with his family from Ireland to Maryland at the age of six, where he studied under the Jesuits at Saint John's College, and entered the Society of Jesus in 1837. He then continued his education at Georgetown University, where he eventually became a teacher and prefect. As prefect, Maguire was responsible for quelling an uprising of 40 students who were unhappy with rules over the meeting times of the Philodemic Society. In 1852, he became the president of Georgetown University, and oversaw the partial separation of the preparatory division from the college. He left in 1858 to do pastoral work, but returned as president in 1866. Maguire directed the university's rebuilding after the Civil War and the establishment of the law school. His tenure ended in 1870, and he spent the rest of his life in pastoral ministry. ([Full article...](#))

Recently featured: Operation PBHistory · Apollo 14 · Elizabeth Raffald

Archive · By email · More featured articles

Did you know ...

- that unable to demolish the colonial-style Attara

In the news

- The United Arab Emirates' **Hope orbiter** and China's **Tianwen-1 orbiter** (*launch pictured*) separately reach Mars.
- In American football, the Tampa Bay Buccaneers defeat the Kansas City Chiefs in the **Super Bowl**.
- A glacial outburst flood in Uttarakhand, India, leaves at least 31 people dead and around 165 others missing.
- Aung San Suu Kyi, the State Counsellor of Myanmar, is detained by the military in a **coup d'état**.

Tianwen-1 launching in July 2020

Ongoing: COVID-19 pandemic

Recent deaths:

Albert Hale · Moufida Tlatti · Anthony Sowell · Vera Wülfing-Lekkie · Jean-Claude Carrrière · Dave Egerton

Nominate an article

On this day

February 11: Fat Thursday (Western Christianity, 2021); anniversary of the **Liberation of Paris** in 1871; National **Leaving Certificate** in Ireland

3:15 PM IN 2/11/2021

➤ Creating your page on Wikipedia.

1) Search Your Name:

A screenshot of the Wikipedia homepage (en.wikipedia.org/wiki/Main_Page). The search bar at the top contains the name "Nitesh Vasave". A red arrow points to the search button next to the search term. The main content area features a featured article about Marilyn Manson's album "Heaven Upside Down". The sidebar on the right includes sections for "In the news" (with stories about the Hope Mars mission and the Super Bowl), "On this day" (February 14), and "Nominate an article". The bottom status bar shows system icons and the date/time: 1:36 PM IN 2/14/2021.

2)

A screenshot of the Wikipedia search results page for "Nitesh Vasave" (en.wikipedia.org/w/index.php?search=Nitesh+Vasave&title=Special%3ASearch&go=Go&ns0=1). The search bar at the top also contains "Nitesh Vasave". A red arrow points to the "Did you mean: niles vasile" suggestion below the search bar. The main content area shows a message: "The page \"Nitesh Vasave\" does not exist. You can ask for it to be created." A red box highlights this message. To the right, a "Click Here" button is visible. The bottom status bar shows system icons and the date/time: 1:36 PM IN 2/14/2021.

3)

The screenshot shows the 'Wikipedia:Articles for creation' page. The left sidebar contains links like Main page, Contents, and Create article. The main content area features a large 'Welcome to Articles for Creation!' banner with a 'W' logo. Below it, text explains the process for creating new articles. A red box highlights the 'Click here to start a new article' button, which is also labeled with a red arrow pointing to it.

4)

The screenshot shows the 'Wikipedia Article Wizard' page. The left sidebar is identical to the previous page. The main content area features a 'Welcome' section with a 'Click' button. A red box highlights the 'Next' button, which is also labeled with a red arrow pointing to it.

5)

The screenshot shows the 'Referencing and notability' step of the Wikipedia Article Wizard. The left sidebar contains links like Main page, Contents, and Help. The main content area starts with a heading 'Wikipedia Article Wizard' and 'Referencing and notability'. It includes a note about rejection criteria and sections on 'Copyright' (warning against copy-paste) and 'Referencing' (guidelines for sources). A code example for referencing is shown, followed by a link to an introduction guide. A large blue 'Next' button is at the bottom.

6)

The screenshot shows the 'Common mistakes' step of the Wikipedia Article Wizard. The left sidebar is identical to the previous screen. The main content area starts with a heading 'Wikipedia Article Wizard' and 'Common mistakes'. It lists common drafting errors: writing about oneself, copy-pasting, not citing sources, and overly promotional language. Three buttons are highlighted with red boxes: 'I'm paid to edit', 'I'm writing about myself, or a close person/subject' (which is currently selected), and 'I'm not connected to the subject'.

7)

From Wikipedia, the free encyclopedia
< 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|1=Title of your draft}}`
- Click the "Publish changes" button

You must complete these steps in order to continue.

[I have disclosed](#)

8)

From Wikipedia, the free encyclopedia
< Wikipedia:Article wizard

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 a integral step in having other editors help you with your article.

[Next](#)

9)

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

The screenshot shows the Wikipedia Article Wizard - Draft Creation page. At the top, there's a navigation bar with links for 'Project page', 'Talk', 'Read', 'View source', 'View history', and a search bar. Below the navigation is the Wikipedia logo and the text 'WIKIPEDIA The Free Encyclopedia'. On the left, a sidebar contains links for Main page, Contents, Current events, Random article, About Wikipedia, Contact us, Donate, Contribute, Help, Learn to edit, Community portal, Recent changes, Upload file, Tools, What links here, Related changes, Special pages, Permanent link, Page information, Wikidata item, Print/export, and Download as PDF. A message at the top says, '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.' Below this is a red-bordered input field containing the text 'Nitesh Vasave' and a blue 'Create new article draft' button. At the bottom of the page, a note says 'This page was last edited on 18 July 2019, at 02:54.'

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

The screenshot shows the Wikipedia editor displaying a draft page titled 'Draft:Nitesh Vasave'. The page content includes: '{{subst:AfC submission/draftnew}}', a note 'Important, do not remove t..', 'NAME: Nitesh Pratapsing Vasave', 'DOB: 08/04/2000', 'AGE: 21', and the text 'I Live in Maharashtra, Dist:Nandurbar, ratanbara village. My Father is Social Worker, and my mother is teacher Anganwadi in village.'. Below the main content is a 'References' section with a note 'Inline citations added to ...'. The interface includes a toolbar with Draft and Talk tabs, and various editing tools like Paragraph, Cite, Insert, and Publish page. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Mail, and Google Chrome, along with system status indicators.

11) When you Click Publish Page ,One Box is displayed.Filled this box and Click Publish page.

Creating DraftNitesh Vasave - Wikipedia

Draft Talk

Draft:Nitesh Vasave

Save your changes

Published page

Edit summary (Briefly describe your changes)

Self information.

NAME: Nitesh Pratapsing Vasave

DOB: 08/04/2000

AGE: 21

I Live in Maharashtra, Dist:Nandurbar

In my Family we are 6 peoples. Father: I love my Family.Thanks to god for giving me a family.

CAPTCHA: To edit this page, please enter the words that appear below in the box (more info):

catchriff Refresh

Enter the text you see on the image

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.

Review your changes

References

Type here to search

1:58 PM ENG IN 2/14/2021

12) Click Below Button For review your page .

Draft:Nitesh Vasave - Wikipedia

Draft Talk

Draft:Nitesh Vasave

From Wikipedia, the free encyclopedia

Draft article not currently submitted for review.

This is a draft Articles for creation (AFC) submission. It is not currently pending review. There are no deadlines as long as you are actively improving the submission. Drafts not being improved may be deleted after six months.

Note: The submission-received box will appear at the bottom of the page at first. If it's there, your draft has been submitted correctly.

- To edit the draft click on the "Edit" tab at the top of the window.
- Do not copy-paste material from sources, or your submission will be rejected for copyright violations.
- Write from a neutral point of view and base your article on reliable sources that are independent of the subject.
- It is strongly discouraged to write about yourself or your own business. If you do so, you must declare it.

Where to get help [show]

How to improve a draft [show]

Improving your odds of a speedy review [show]

Editor resources [show]

Last edited by Nitesh Pratapsing Vasave (talk | contribs) 0 seconds ago. (Template:AFC_submission/Subst/Editintro)

Submit the draft for review!

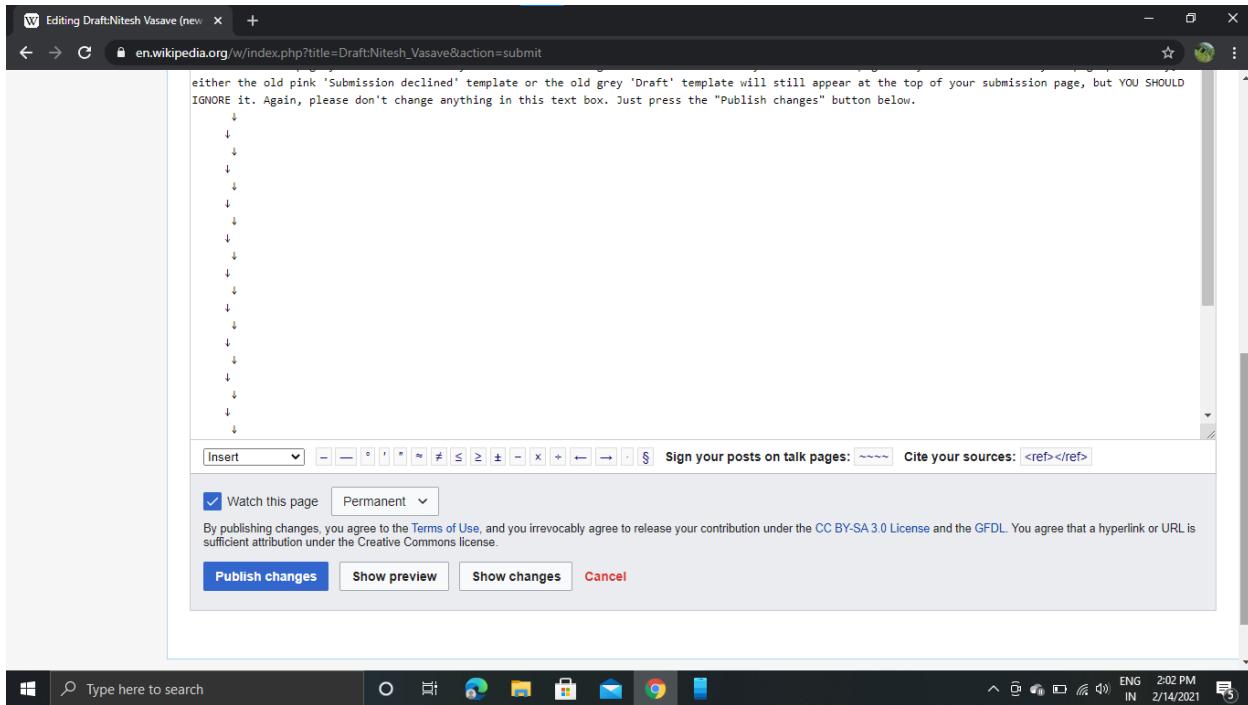
https://en.wikipedia.org/w/index.php?title=Draft:Nitesh_Vasave&action=edit&vswitched=0§ion=new&oldid=981111111

template:AFC_submission/Subst/Editintro

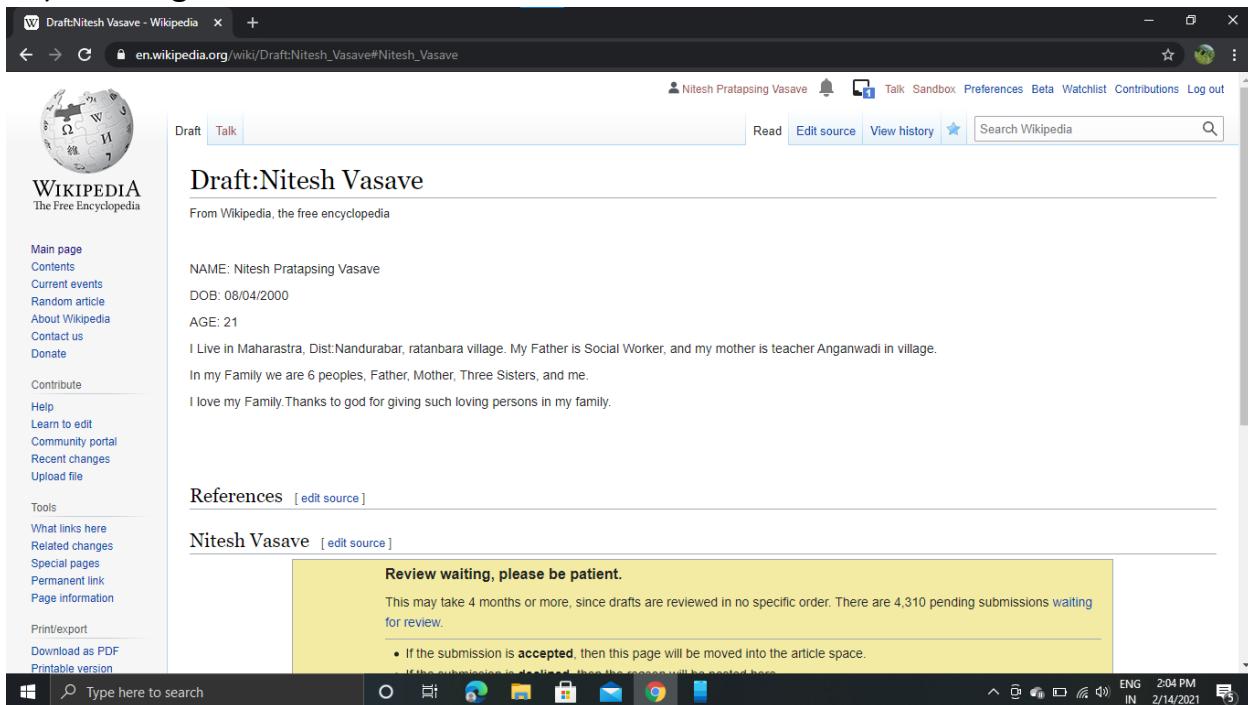
Type here to search

1:59 PM ENG IN 2/14/2021

13) After review Click Publish Page.

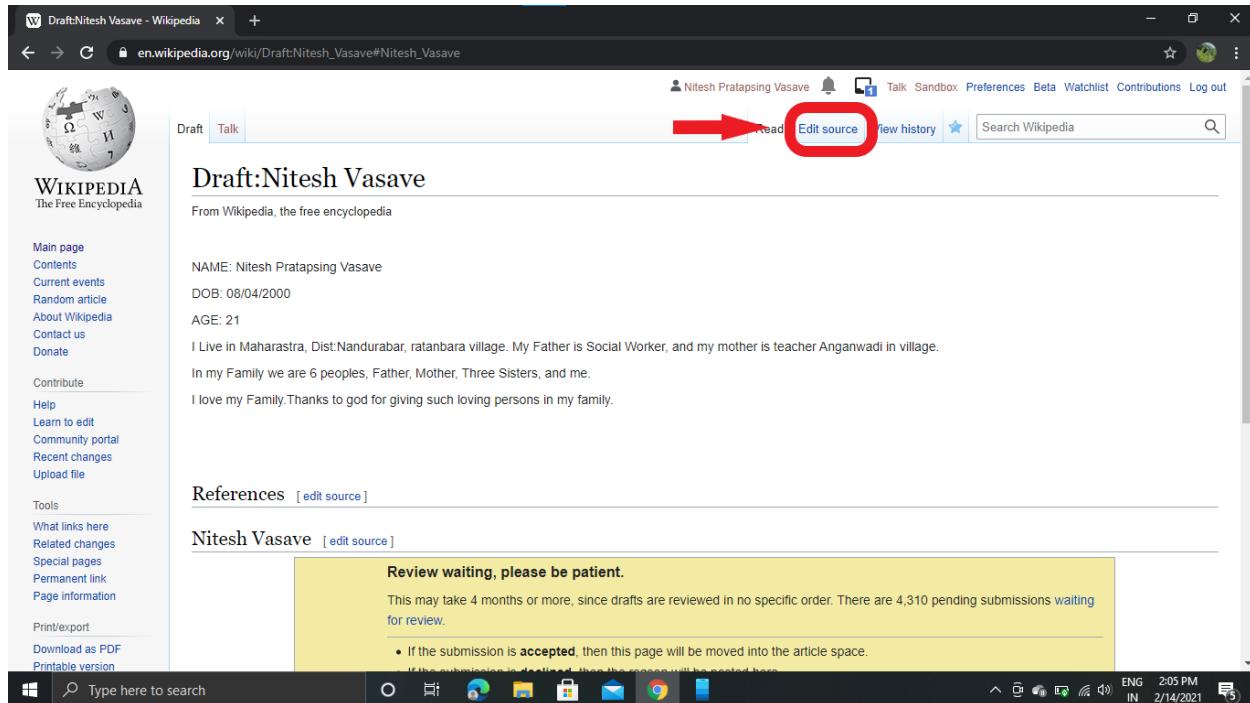


14) Your Page is Created.



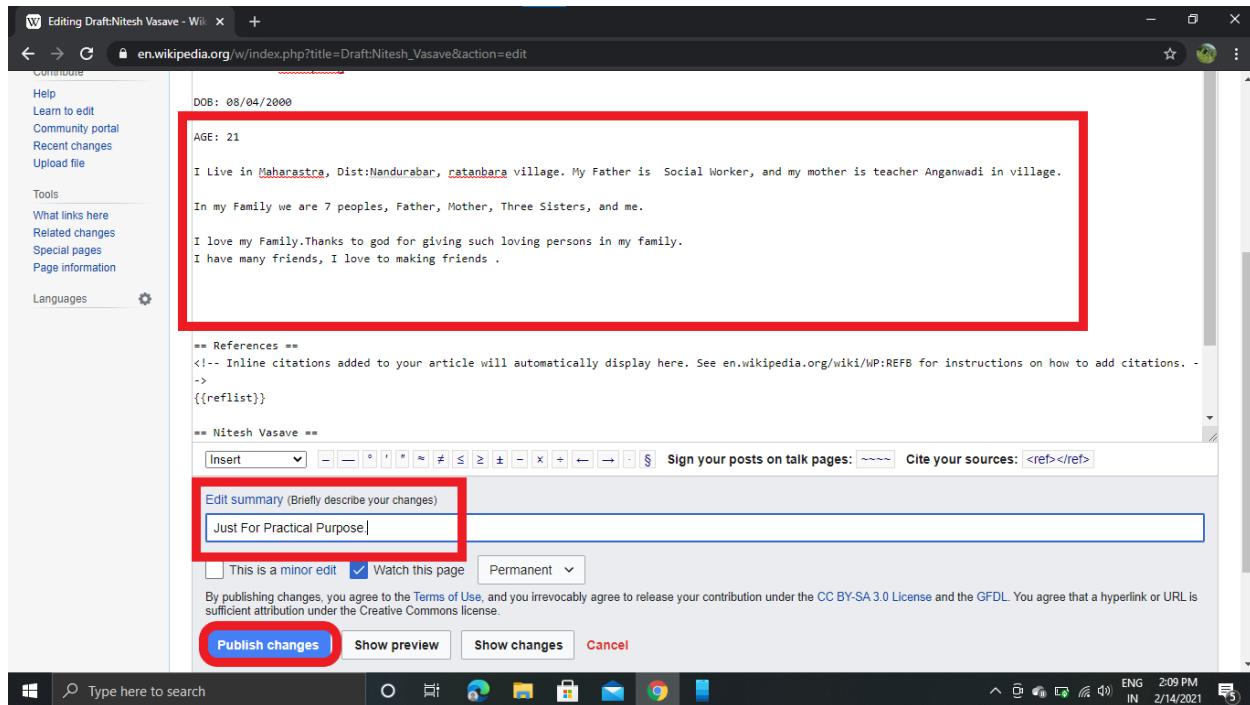
D] Editing Your Page:

1) Click Edit Source



The screenshot shows a Microsoft Edge browser window with the URL en.wikipedia.org/wiki/Draft:Nitesh_Vasave#Nitesh_Vasave. The page title is 'Draft:Nitesh Vasave'. The top navigation bar includes links for 'Read', 'Edit source' (which is highlighted with a red oval), and 'View history'. Below the title, there is a summary section with personal information: NAME: Nitesh Pratapsingh Vasave, DOB: 08/04/2000, AGE: 21. The main content area contains a paragraph about the user's family. At the bottom of the page, there is a 'References' section and a note about pending reviews.

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



The screenshot shows a Microsoft Edge browser window with the URL en.wikipedia.org/w/index.php?title=Draft:Nitesh_Vasave&action=edit. The page title is 'Editing Draft:Nitesh Vasave'. The main content area contains the same personal information and family paragraph as the previous screenshot. Below the text, there is a 'References' section and some code. At the bottom, there is an 'Edit summary' field with the text 'Just For Practical Purpose' and a 'Publish changes' button.

3)Your Page is Edited.

The screenshot shows a Microsoft Edge browser window displaying a Wikipedia draft page titled "Draft:Nitesh Vasave". A red box highlights a success message box in the center of the page that says "Your edit was saved." with a checkmark icon. The main content area of the page contains the following text:

NAME: Nitesh Pratapsingh Vasave
DOB: 08/04/2000
AGE: 21
I Live in Maharashtra, Dist:Nandurbar, ratanbara village. My Father is Social Worker, and my mother is teacher Anganwadi in village.
In my Family we are 7 peoples, Father, Mother, Three Sisters, and me.
I love my Family.Thanks to god for giving such loving persons in my family. I have many friends, I love to making friends .

Below this, there is a "References" section and a "Nitesh Vasave" section. The "Nitesh Vasave" section includes a yellow box with the following text:

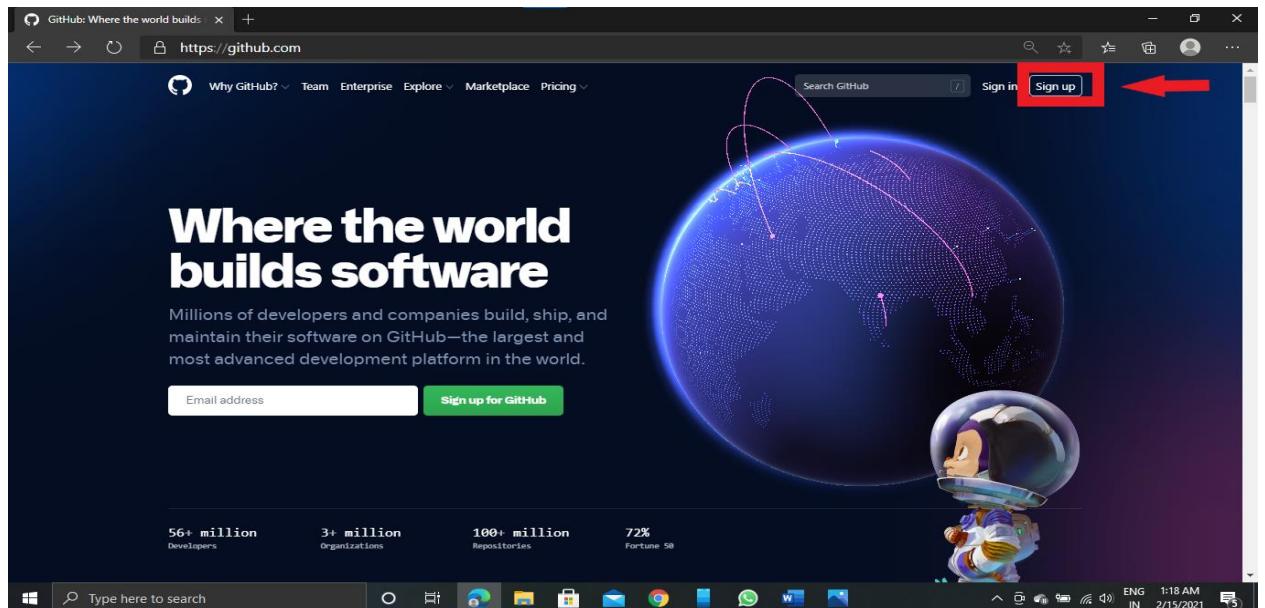
Review waiting, please be patient.
This may take 4 months or more, since drafts are reviewed in no specific order. There are 4,311 pending submissions waiting for review.
• If the submission is accepted, then this page will be moved into the article space.
If the submission is rejected, then the person will be notified here.

The Windows taskbar at the bottom of the screen shows various pinned icons and the system tray with the date and time (2/14/2021, 2:09 PM).

Practical:2 Creating account,repository on Github and cloning repository in Github.

A] Creating Account:

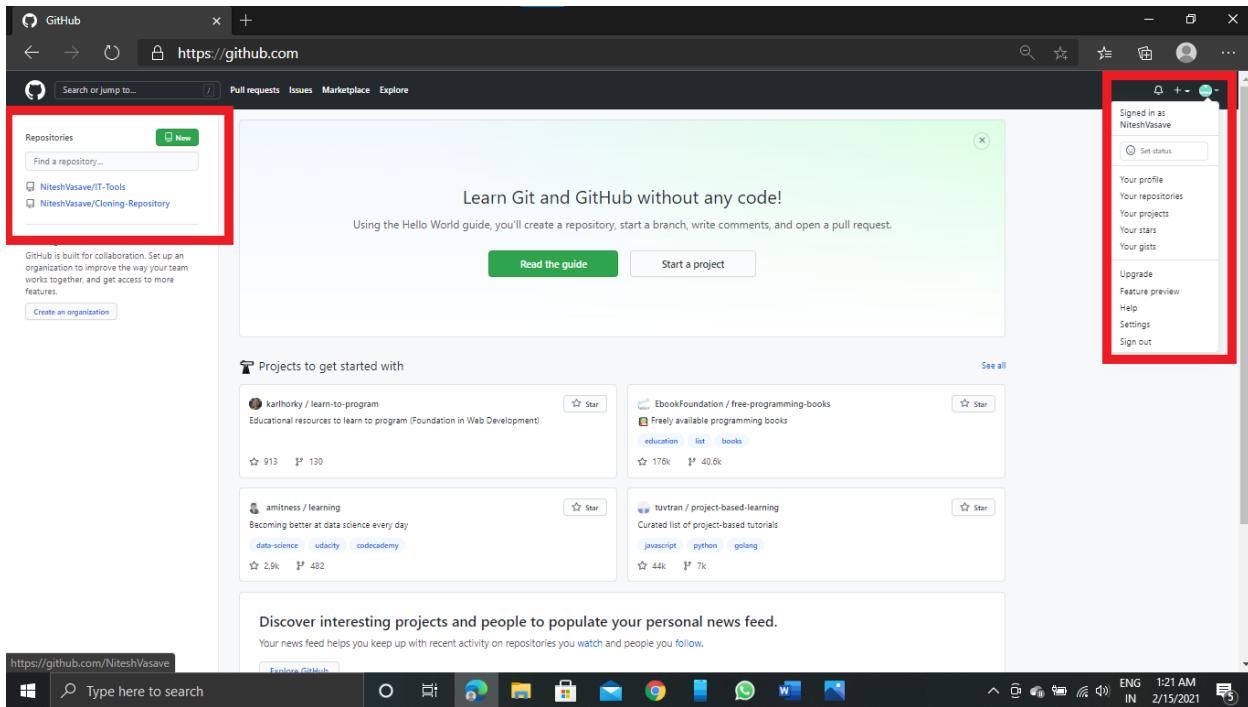
1) Click on Sign Up



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

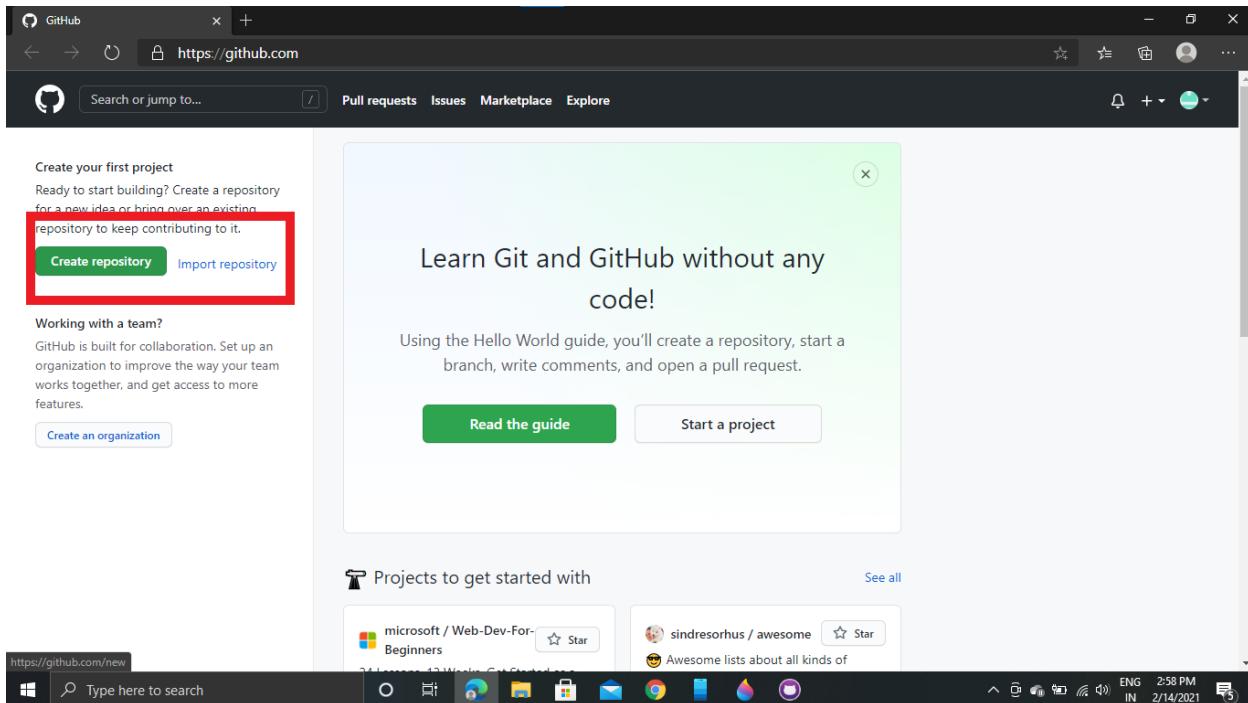
A screenshot of a Microsoft Edge browser window showing the 'Create your account' form on GitHub. The URL https://github.com/join?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home is in the address bar. The form has several fields highlighted with red boxes: the 'Username' field containing 'Hness/Vasave', the 'Email address' field, the 'Password' field, and the CAPTCHA verification area. There are also red boxes around the 'Create account' button at the bottom and the 'Verify' button in the CAPTCHA box. The CAPTCHA itself contains the text 'Please solve this puzzle so we know you are a real person'. At the very bottom of the form, there is a small note about agreeing to the Terms of Service and Privacy Statement.

3) Account created.

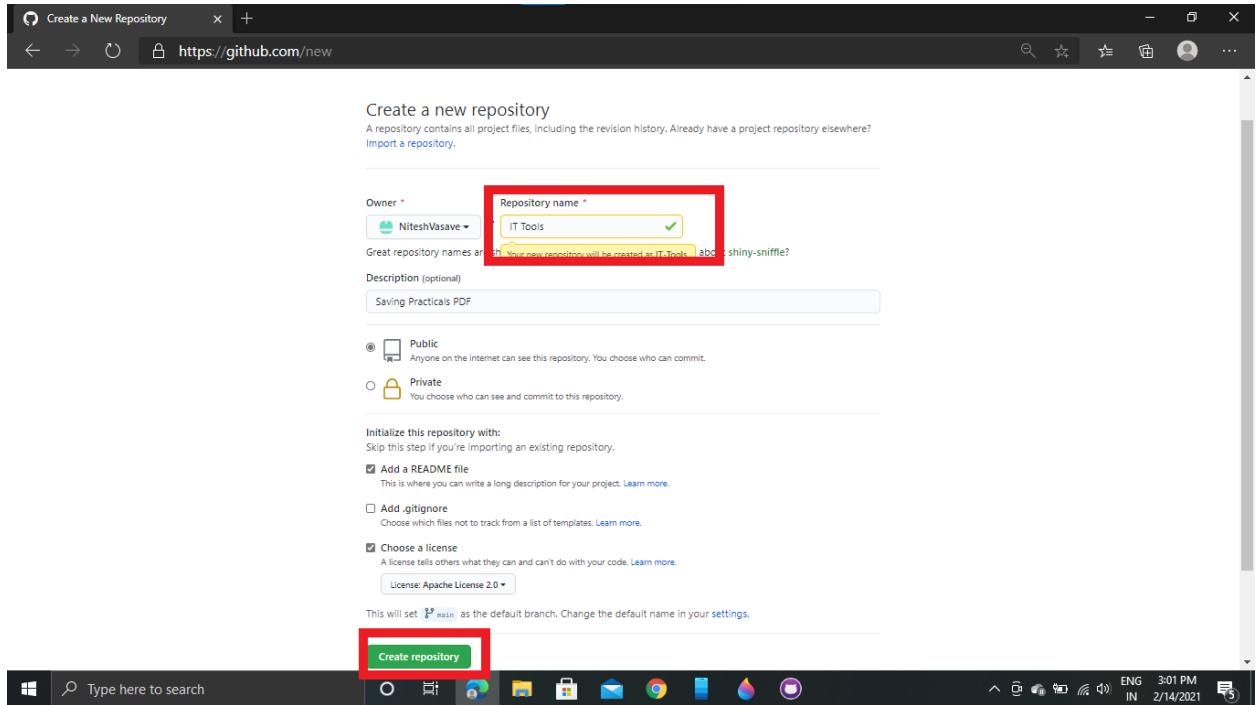


B] Creating Repository:

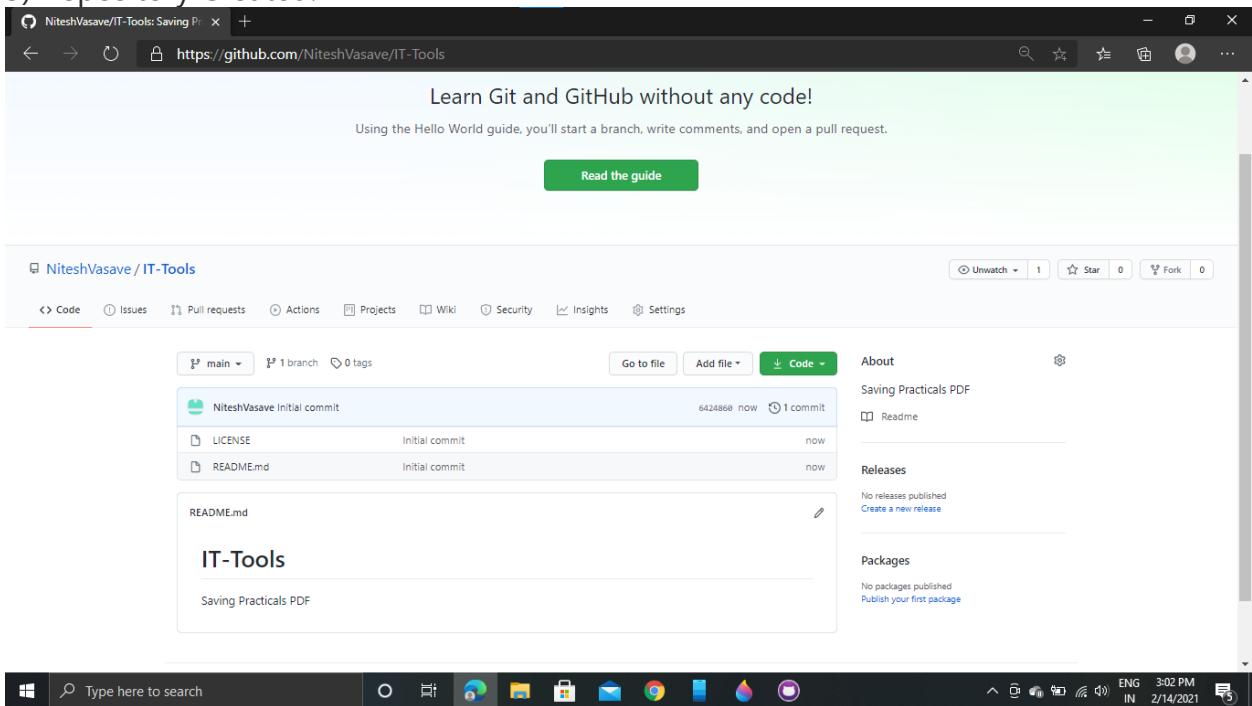
1) In the upper right corner, Click **repository**.



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

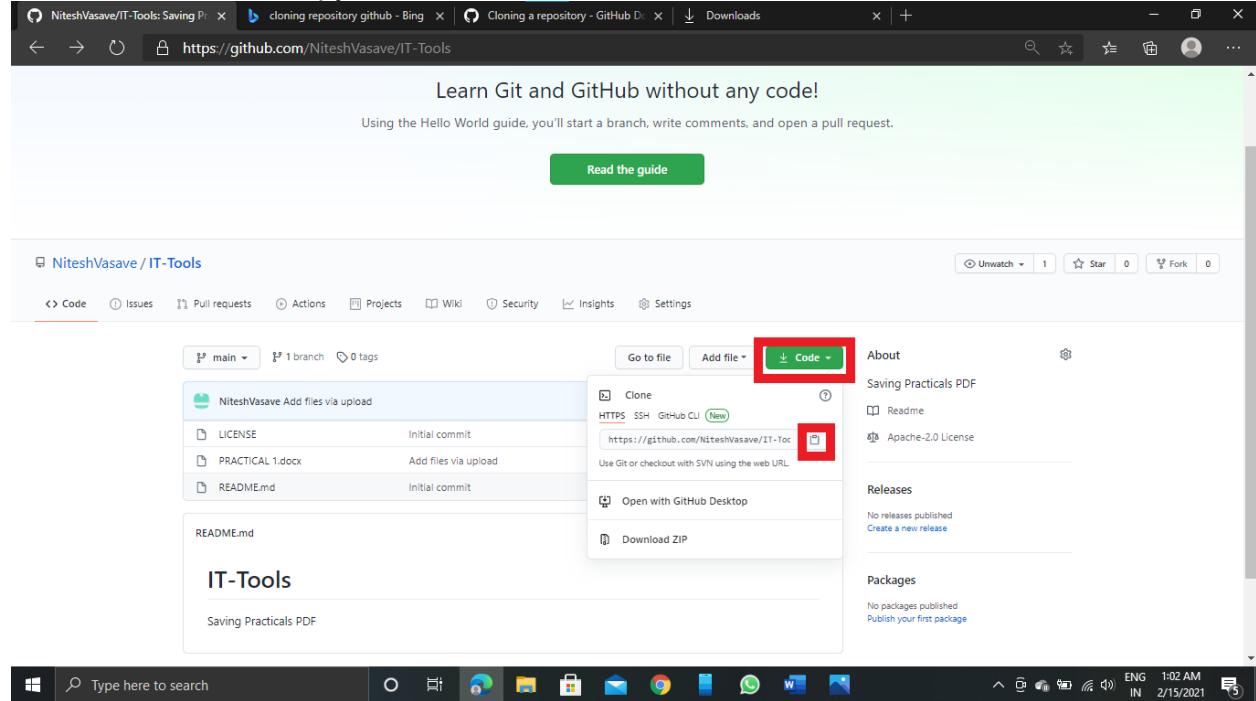


3) Repository Created.

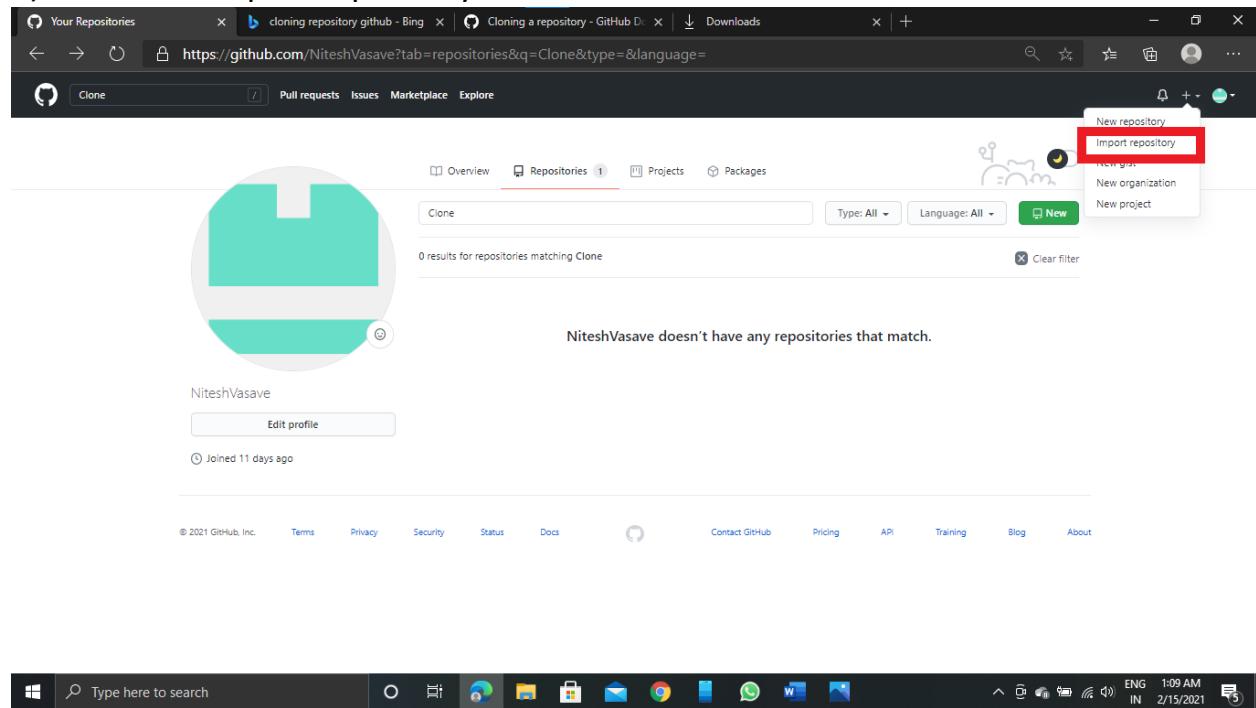


C] Cloning repository:

1) click **Code**. And copy the link.



2) Now Click Import repository.



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

The screenshot shows a Microsoft Edge browser window with the URL <https://github.com/new/import>. The page title is "Import your project to GitHub". The "Your old repository's clone URL" input field contains the URL "https://github.com/new/import". Below it, a note says "Learn more about the types of [supported VCS](#)". Under "Your new repository details", the "Owner" dropdown is set to "NiteshVasave" and the "Repository Name" is "Cloning Repository". The "Privacy" section has "Public" selected, with a note: "Anyone on the internet can see this repository. You choose who can commit." At the bottom right, there is a green "Begin import" button. The entire "Clone URL" input field and the "Begin import" button are highlighted with red boxes.

Your Repository is cloning Successfully.

PRACTICAL : 3

BASIC UNDERSTANDING ON FREE AND OPENSOURCE SOFTWARE

NITESH PRATAPSING VASAVE / ROLL NO.143

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 Roll no:- 143

WRITING AN EMAIL:-

subject: To wish you happy women's day. - Message - Mail
subject: To wish you happy women's day. - Message - Mail

Format Insert Draw Options

Calibri (Body) 11 B I U A Heading 1 Heading 2

From: Bluedevil6666@hotmail.com

To: niteshvasave0804@gmail.com;

subject: To wish you happy women's day.

Dear Mom,

Today, I want to say happy women's day and thanks for your love, care and support. you are best mom. I always thank to god for giving me loving family. Every home and Every heart, Every feeling and every moment of Happiness is truly Incomplete without you. Love from your loving son.

I am forever thankful, for your love.

YOUR LOVING SON
Nitesh.

PRACTICAL: - 5

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

Ans:-

Green computing is environmentally responsible and eco-friendly use of computers, It is also defined by being the using and disposing of computing devices in a way that reduces their environmental contact.

- 1) Power down when not in use Seems simple but many of us leave computers 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 thesees features you can command the computer to do various energy-saving tasks automatically, including shutting off unused 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 environments 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] PERCEPTION

← **Pandemic period**

PERCEPTION

March 30, 2021



During the pandemic and the perpetuated lockdown. many people have lost their near and dear ones, many have lost their jobs. and all of this has created an air of pessimism. I would like to share a few thoughts which can keep us positive and going. **According to Darwin** "it is the survival of the fittest" maybe this is the time to test our self that how fit we can be from our mind and body. Losses are irrevocable but we can come out of its shock. Mind plays a critical role in fighting against such a pandemic or any other adverse condition. Research shows that we have powerful capabilities to choose positive emotions or our optimistic way of thinking. Man has bad tendency to focus on the negative stuff rather than the positivity. To overcome such a repressing situation, we can choose to interpret negativity with some optimism.



Pandemic period

SOME OPTIMISM.



Our family,friends,mentors and their support could be of great help in overcoming such situations. Besides,we should learn to accept the conditions thrown at us. Sharing our feelings of gratitude with our loved ones will help us to get rid of our negative feelings. Affirmations may seem a little cheesy. but research suggests that the work on a fundamental level we can actually form new "positive thought ,neuron clusters." Optimism is when we consciously cultivate positivity in our minds, and this depends upon your **PERCEPTION**.

THANK YOU

2] GOLDEN EAGLE:

← **Pandemic period**

The Golden Eagle



March 30, 2021

The Golden Eagle is one of the best known birds of prey. It is most widely distributed species of eagle. These birds are dark brown, with lighter golden brown plumage on their napes.



Golden eagle build large nests in cliffs and other high places to which they may return for several breeding years. most breeding activities takes place in the spring. female lay from one to four eggs.



[NEST]



The Golden Eagle courtship rituals include circling and swallow dives at each other ,is extremely fast.



With a wingspan of 6 to 8 feet, the Golden Eagle is a symbol of both size and power. While its average flight speed of around 28 to 32 mph, the golden eagle can suddenly leap upon its prey with a dizzying dive speed approaching 150 to 200 mph. Golden eagle usually hunt during daylight hours. Golden eagle use their speed and sharp talons to snatch up rabbits and ground squirrels. They also eat reptiles, birds, fish and smaller fare such as large insects.

PRACTICAL:- 7

Implementing coding practices in Python using PEP8.

1]

nit.py - C:/Users/Admin/Pictures/OOP PRACTICAL/assignment/nit.py (3.9.1)

File Edit Format Run Options Window Help

```
#Addition of two complex number
```

```
class complex:
    def __init__(self,a,b):
        self.a=a
        self.b=b

    #adding two objects
    def __add__(self, other):
        return self.a + other.a, self.b + other.b

    def __str__(self):
        return self.a, self.b

ob1=complex(1,2)
ob2=complex(2,3)
ob3=ob1+ob2
print(ob3)
```

IDLE Shell 3.9.1

File Edit Shell Debug Options Window Help

Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/Admin/Pictures/OOP PRACTICAL/assignment/nit.py =====

(3, 5)

>>>

2]

nit.py - C:/Users/Admin/Pictures/OOP PRACTICAL/assignment/nit.py (3.9.1)

File Edit Format Run Options Window Help

```
# overloading equality and less than operator in python
```

```
class A:
    def __init__(self,a):
        self.a=a

    def __lt__(self, other):
        if(self.a < other.a):
            return "ob1 is less than ob2"
        else:
            return "ob2 is less than ob1"

    def __eq__(self,other):
        if(self.a == other.a):
            return "both are equal"
        else:
            return "not equal"

ob1=A(2)
ob2=A(3)
print(ob1>ob2)

ob3=A(4)
ob4=A(4)
print(ob1 == ob2)
```

IDLE Shell 3.9.1

File Edit Shell Debug Options Window Help

Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/Admin/Pictures/OOP PRACTICAL/assignment/nit.py =====

ob2 is less than ob1

not equal

>>> |

Practical: -8

OVERVIEW

Name :- Devansh B. Vala

Standard :- FYIT(sem-2)

Roll no. :- 97

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.

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 benefits.

◊ *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

STUDY AND METHODOLOGY

Name :- Paras Poriya

Standard :- FYIT(Sem-2)

Roll No. :- 64

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.

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.

ENERGY EFFICIENCY

Name :- Roshan Maurya

Standard :- FYIT(Sem-2)

Roll No. :- 40

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

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.

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.

The following are examples of energy efficiency.

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

LAWS OF NATURE

Name :- Abhay Gupta

Standard :- FYIT(Sem-2)

Roll No. :- 15

HAVE WE BECOME SEPARATE FROM NATURE?



NATURE AS A RESOURCE?

An aerial photograph showing a large, brown, deforested area on the left, characterized by a grid-like pattern of agricultural fields. This area is bordered on the right by a dense, dark green forest. The contrast between the cleared land and the untouched forest is stark.

LIMITED

UNLIMITED

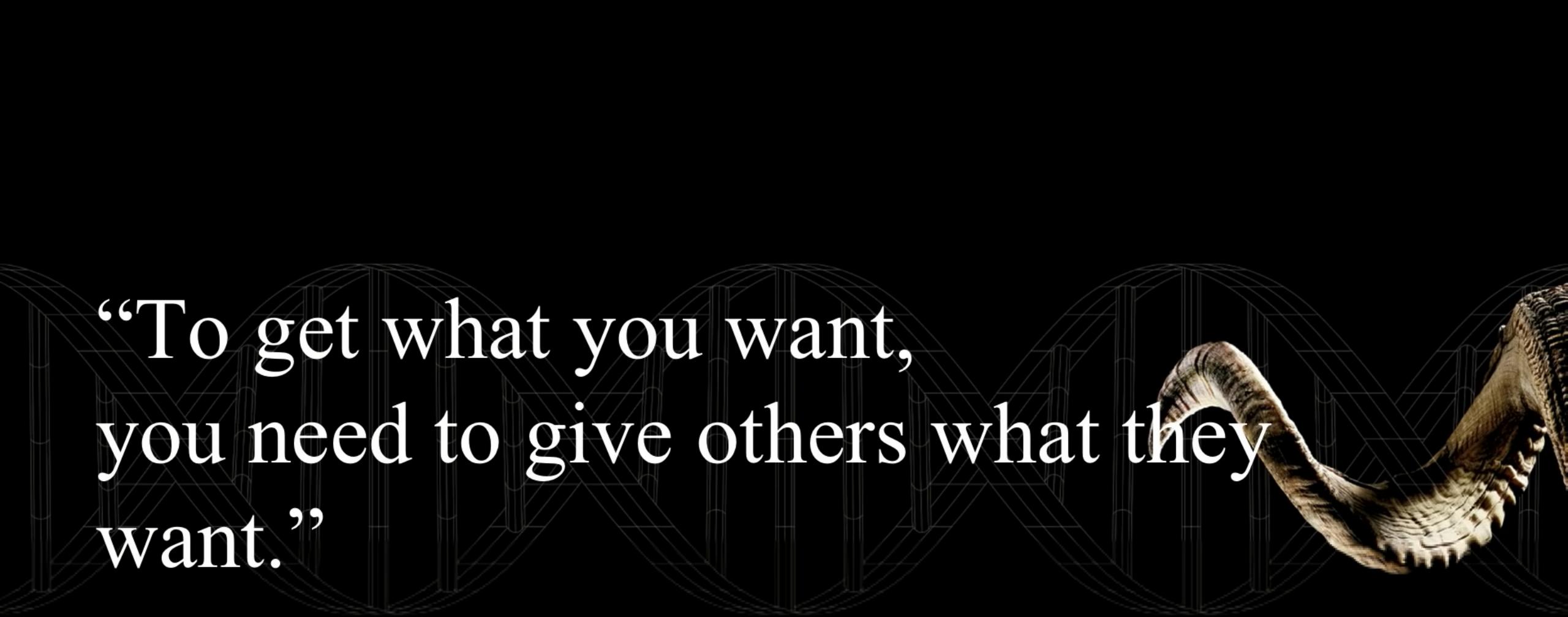
3 NATURAL LAWS:

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

Name :- Nitesh Vasave

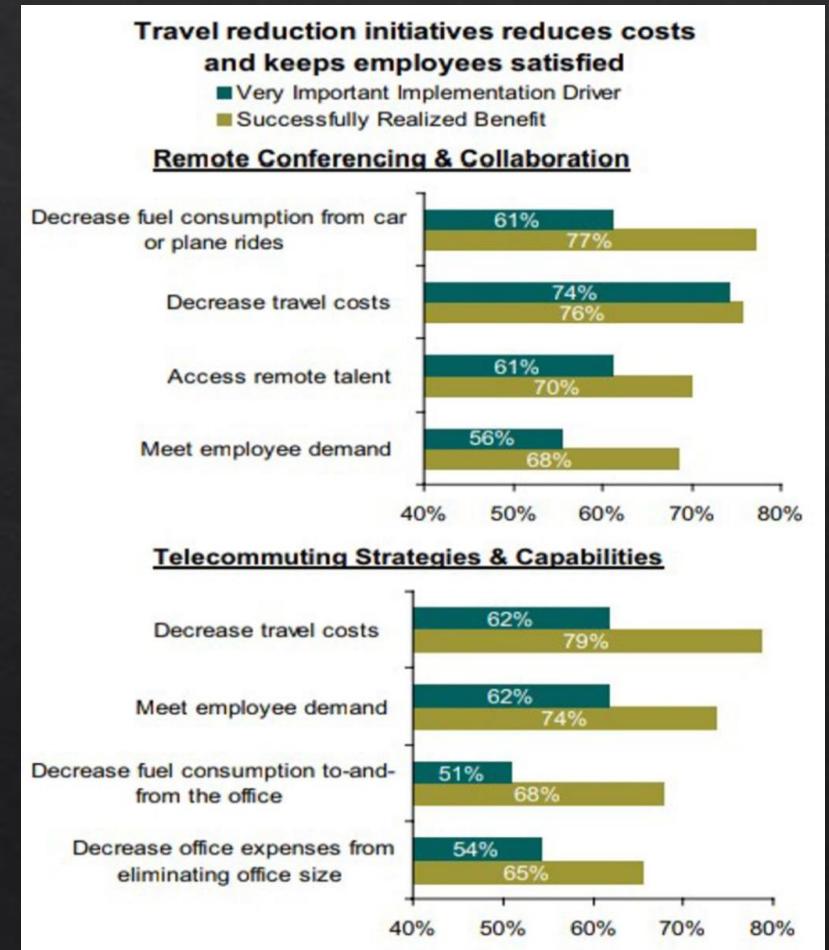
Standard :- FYIT(Sem-2)

Roll No. :- 143

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.

GREEN SUPPLY CHAIN MANAGEMENT INITIATIVES

**NAME :- AMAN YADAV
STANDARD :- FYIT(SEM-2)
ROLL NO. :- 103**

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 more profitable, while helping the environment



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.

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



Name: Aryan Pandey

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

NAME :- BHUSHAN KADAM

STANDARD :- FYIT(SEM-2)

ROLL NO. :- 32

Disadvantages of going green

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

Disadvantages of going green

- 5. Is it worth it?

- 6. Competition

- 7. Marginal impact

GREEN IT EMISSIONS AND GREEN IT TYPICAL DIMENSIONS

NAME :- RITESH SONI

STANDARD :- FYIT(SEM-2)

ROLL NO. :- 90

- ❖ Green It
- ❖ Virtualization And Consolidation
- ❖ Energy Efficiency

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