



**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. Nihar Kameshbhai Mehta**

**Roll No:    29**

**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)**

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: _____	

## Practical1: Introduction and Contribution to Wikipedia

### Description about Wikipedia:

Wikipedia, free Internet-based encyclopaedia, started in 2001, that operates under an open-source management style. It is overseen by the non-profit Wikimedia Foundation. Wikipedia uses a collaborative software known as wiki that facilitates the creation and development of articles.

### Features:

You may not have realized, but you've probably already used a Wiki. The most famous example most people have engaged with is Wikipedia, the free internet encyclopaedia that anyone can edit. While your company Wiki may not end up containing quite as many answers, the concept and functionality is the same.

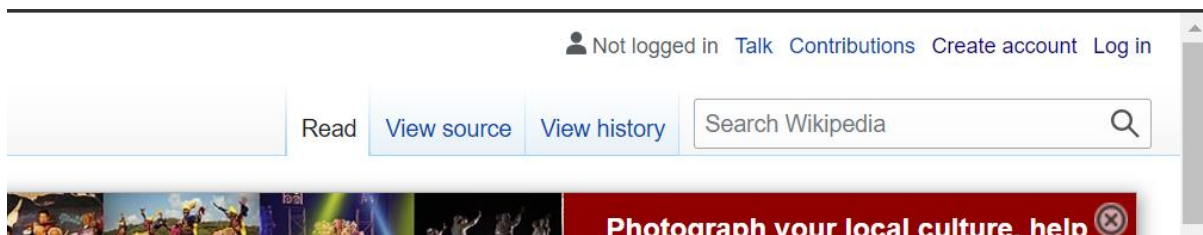
Wikis can have a variety of uses and applications, but they usually share a few key functionalities. We'll walk you through each of these features using the Wiki in Backlog.

### Creating Account on Wikipedia:

- Go to ==> <https://www.wikipedia.org>
- The click on the english as shown



- Click on create account



- Fill all the detail as shown in the photo

Username [\(help me choose\)](#) **Wikip**

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

  
[Refresh](#)

Enter the text you see on the image

- Click on the account name and then click on the start user

## ser:NiharMehta25

n Wikipedia, the free encyclopedia

Wikipedia does not have a **user page** with this exact name. In general, this page should be created and edited by **User:NiharMehta25**. If in doubt, please verify that "NiharMehta25" exists.

- Start the **User:NiharMehta25** page.
- Search for "NiharMehta25" in existing pages of namespace User.
- Look for pages within Wikipedia that link to this title.

Other reasons this message may be displayed:

- Editing your page on Wikipedia

👤 [NiharMehta25](#) 🔔 📱 [Talk](#) [Sandbox](#) [Preferences](#) [Beta](#) [Watchlist](#) [Contributions](#) [Log out](#)

User page Talk Create ★ Search Wikipedia 🔍

↶ ↷ Paragraph ⌵ A 🔗 🗣️ Cite ☰ ⌵ Insert ⌵ Ω ? ⚠️ ☰ ✎ ⌵ Publish page

## User:NiharMehta25

Hi i am Nihar Mehta a student studying FYBSc C.S . I study in Nagindas khandwala. I am pursuing to go in NDA .

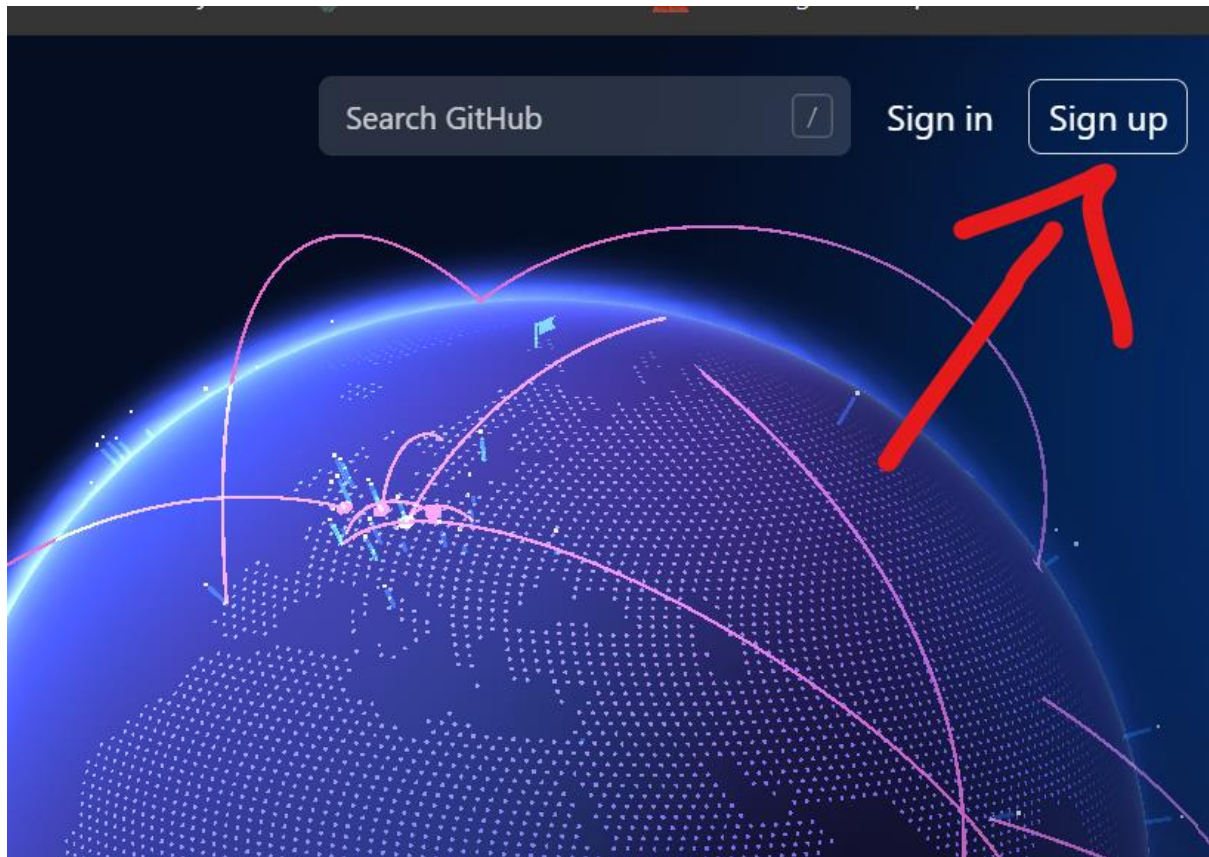
[Privacy policy](#) [About Wikipedia](#) [Disclaimers](#) [Contact Wikipedia](#) [Mobile view](#) [Developers](#) [Statistics](#) [Cookie statement](#) 🌐 WIKIMEDIA 🌞 Power by Me

## Practical2: Creating account, repository on Github and Cloning repository in Github

### a) Creating Account

Go to <https://github.com/>


Then click on Sign up



Fill up your detail ::-

Username, Password, and Email:

## create your account



Username \*

Email address \*

Password \*

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter.  
[Learn more.](#)

Then verify the your email and click create account :



Email preferences

☒ Send me occasional product updates, announcements, and offers.

Verify your account

Please solve this puzzle so we know you are a real person

Verify



Create account

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related

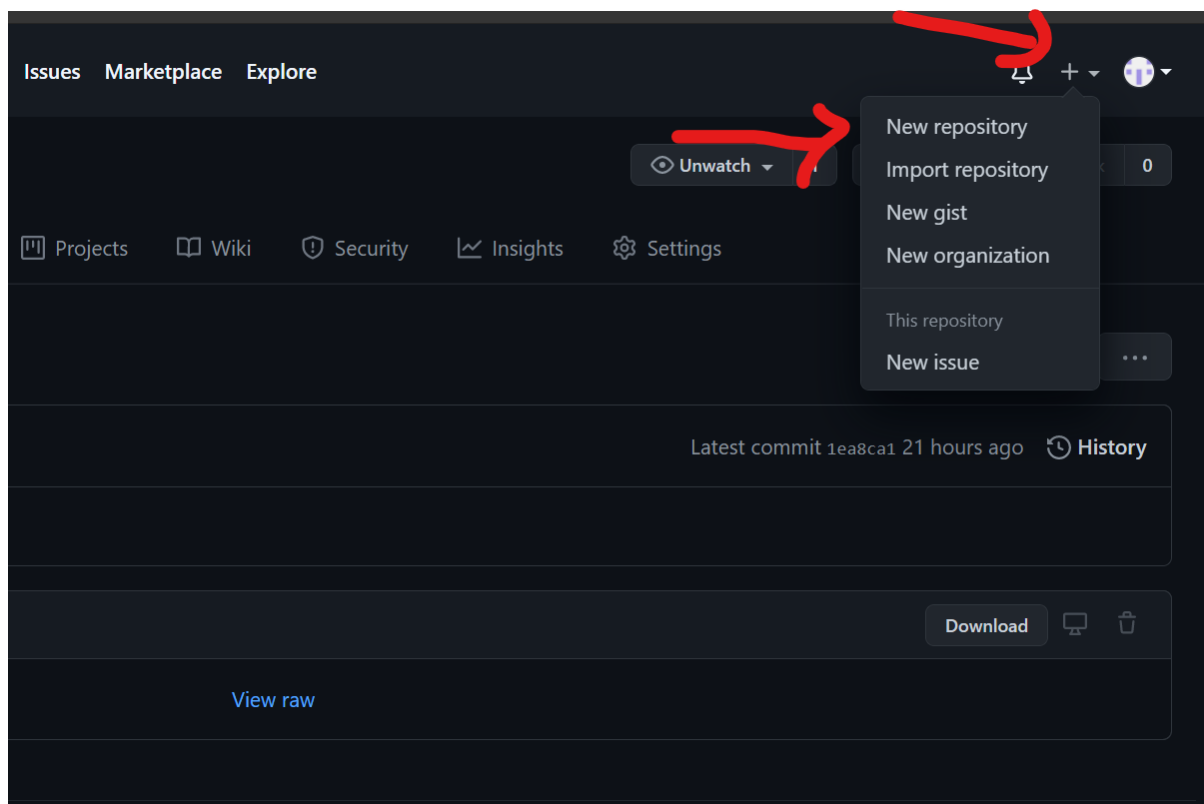
- Select the occupation

What kind of work do you do, mainly?

<b>Software Engineer</b> I write code	<b>Student</b> I go to school
<b>Product Manager</b> I write specs	<b>UX &amp; Design</b> I draw interfaces
<b>Data &amp; Analytics</b> I write queries	<b>Marketing &amp; Sales</b> I look at charts
<b>Teacher</b> I educate people	<b>Other</b> I do my own thing

## b) Creating Repository :

Click on + sign and click on New repository




Give Name to your repository and do the setting as per required




**Create a new repository**  
A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)


Owner \* Repository name \*

 Nihar2520 /

Great repository names are short and memorable. Need inspiration? How about **studious-palm-tree?**

Description (optional)

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

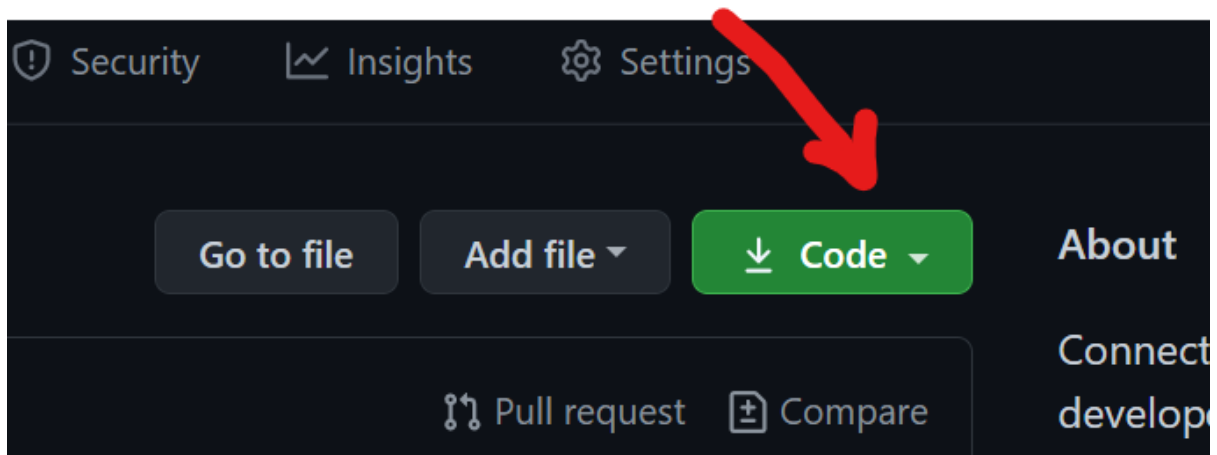
☐  **Private**  
You choose who can see and commit to this repository.

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

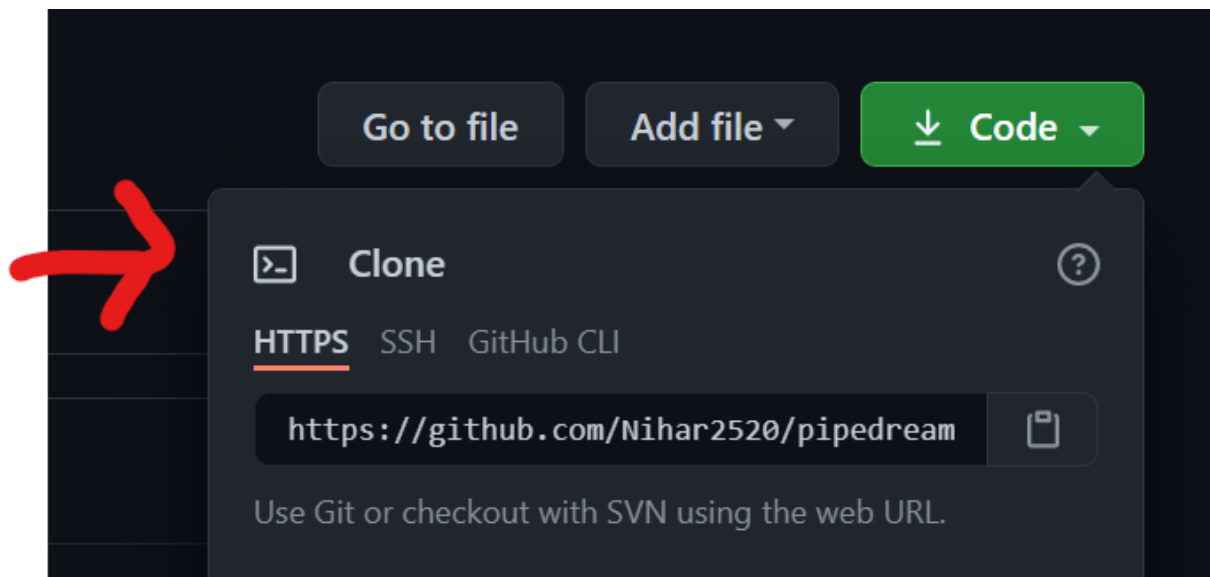
☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

### c) Cloning repository:

Click on Code in green highlight as shown in screen shot:



You can clone it with three steps as HTTPS or SSH or GitHub CLI:



## PRACTICAL 3:

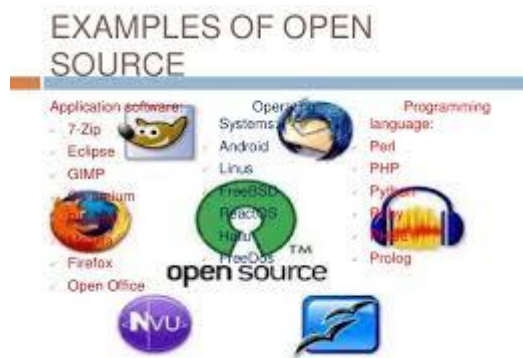
### BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

a) Describe Open-Source Software with Example.

- The term **open source** refers to something people can modify and share because its design is publicly accessible.
- Open-source software is software with source code that anyone can inspect, modify, and enhance.
- "Source code" is the part of software that most computer users don't ever see; it's the code computer programmers can manipulate to change how a piece of software a "program" or "application" works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

Example:

- Linux operating system.
- Android by Google.
- Open office.
- Firefox browser.



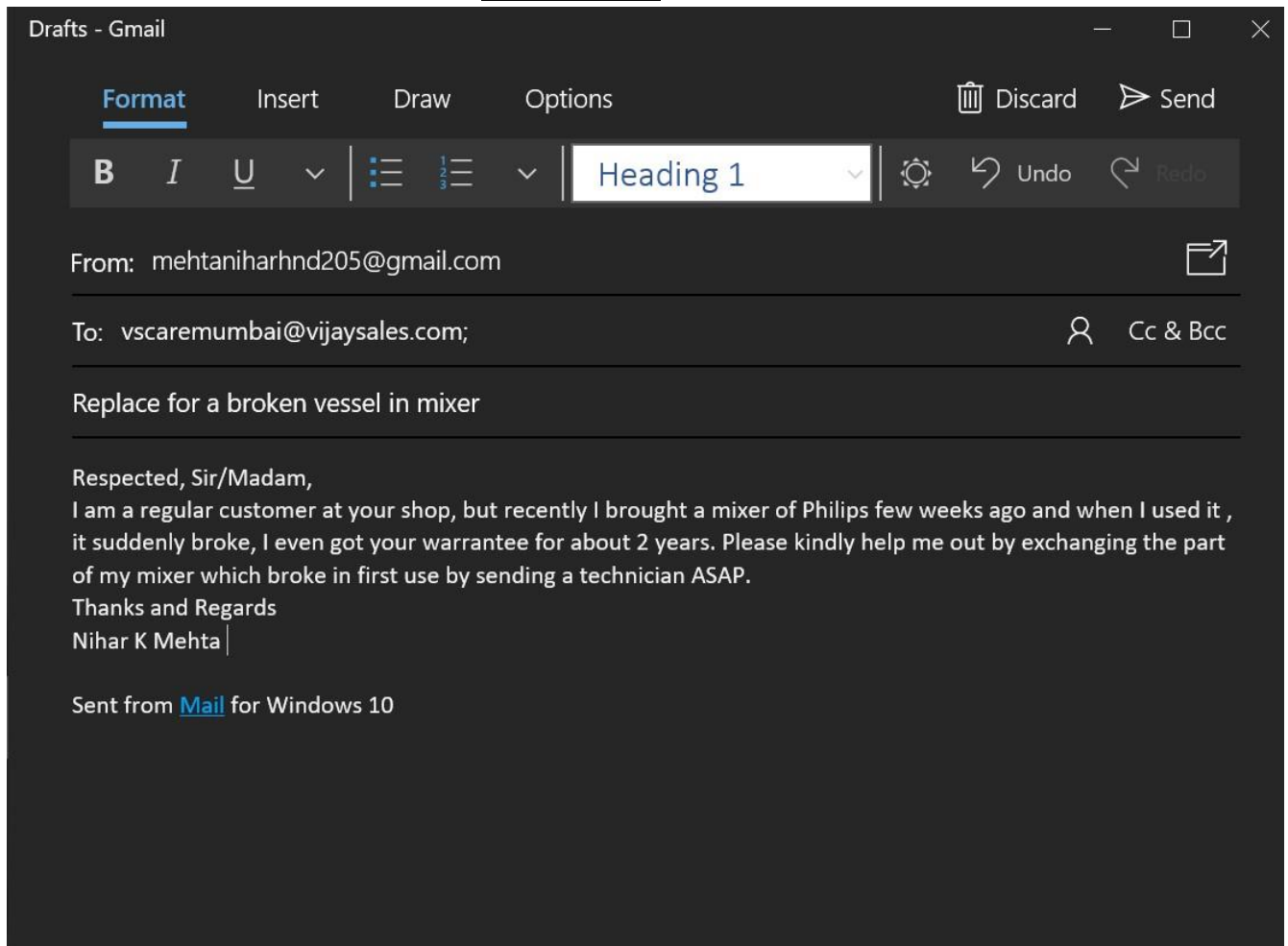
**Describe Free Software with Example:**

**Free Software** is computer software distributed under terms that allow users to run the software for any purpose as well as to study, change, and distribute it and any adapted versions. Free software is a matter of liberty, not price: all users are legally free to do what they want with their copies of a free software (including profiting from them) regardless of how much is paid to obtain the program.

## Difference between Free and Open Source Software:

Free software	Open source software
<ol style="list-style-type: none"><li>1. Software freedom translates to social freedom.</li><li>2. Software is an important part of people's lives.</li><li>3. Freedom is a value that is more important than any economical advantage.</li><li>4. Examples: The Free Software Directory maintains a large database of free-software packages. Some of the best-known examples include the Linux kernel, the BSD and Linux operating systems,</li></ol>	<ol style="list-style-type: none"><li>1. Ethics are to be associated to the people not to the software.</li><li>2. Software is just software. There are no ethics associated directly to it.</li><li>3. Freedom is not an absolute concept. Freedom should be allowed, not imposed.</li><li>4. Examples: Prime examples of open-source products are the Apache HTTP Server, the e-commerce platform osCommerce,</li></ol>

## IT Practical 4



## **Practical 5:**

Using practical examples, describe green computing. List and explain the steps that you take to contribute to 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, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact.

Put laptops in "sleep" mode when not in use ::-

This reduces their energy use by 60 to 70 percent – and ultimately could save enough electricity each year to power Vermont, New Hampshire, and Maine, cut electric bills by \$2 billion, and reduce carbon dioxide emissions by the equivalent of 5 million cars.

3. Even better, turn OFF computers and other equipment when not in use ::-

Despite the debate over whether it's better for your computer to be left on or shut off, the fact is it's better for the environment to shut it off. In fact, computers were designed to be turned off and back on!

4. E-cycle used computer equipment::-

Find a recycler in your area. Also, Staples, the office supply retailer, has now started a recycling program. They will accept any brands of used desktop and notebook computers, monitors, printers, fax machines and all-in-one devices. Smaller items like keyboards, mice and speakers are free to drop off.

## **Practical 6**

## Types of renewable source of energy



- March 20, 2021

*Let see in our word there are many renewable source of energy so some of them are :*

**Solar Energy** which is quit knowing in our day to day life ,some countries have started to change their energy source from heat energy to solar .The first solar panel was made in 1950 but the solar cell we use was first came in 1954 by bell labs by 3 scientist named Daryl Chapin, Calvin Fuller, and Gerald Pearson, created a more practical solar cell using silicon. Which is quite cheap and long lasting ,but it also have some side effect to human life so it is still harm full for human brain's



Then what next so there is also term called atomic energy , for those don't know about atomic energy these type of energy is produced by colliding the atoms with each other and energy produced by colliding is used for electric city .



But there is a big risk to these type of energy is too sensitive and any mistake can harm and endanger surrounding life and nature so they are limited and costly

There are many source of energy which are not harm full but they depend on other things like wind water (treadmill energy ) e.c.t .

But in my opinion there is one idea which is safe till the human do not come near it, that is thunder or artificial thunder Which can be made by human

This theory of harvesting thunder storm or thunder was brought to light in 1980 by many genius to convert it into electricity but my idea is different it is not to develop electricity by borrowing it from thunderstorm or lighting but to create it .In short term to create lighting in a chamber and absorb its lighting by help of good conductor of electric city and store it or use it directly .This process happen with the help of steamed water vapors when colluded within them self with high force

## Practical 7

Implementing coding practices in Python using PEP8



C: > Users > mehta > OneDrive > Desktop > New Text Document (3).py > [?] name

```
1 name = "John Smith"
2 first_name, Last_name = name.split()
3 print(Last_name, first_name, sep=',')
```

PROBLEMS

TERMINAL

...

1: Python

▼

+

□

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^

×

```
    first_name, Last_name = name.split()
```

NameError: name 'name' is not defined

PS C:\Users\mehta> & python "c:/Users/mehta/OneDrive/Desktop/New Text Document (3).py"

Smith,John

PS C:\Users\mehta>

# *Creating the user page in Wikipedia*

Presented By Group 3

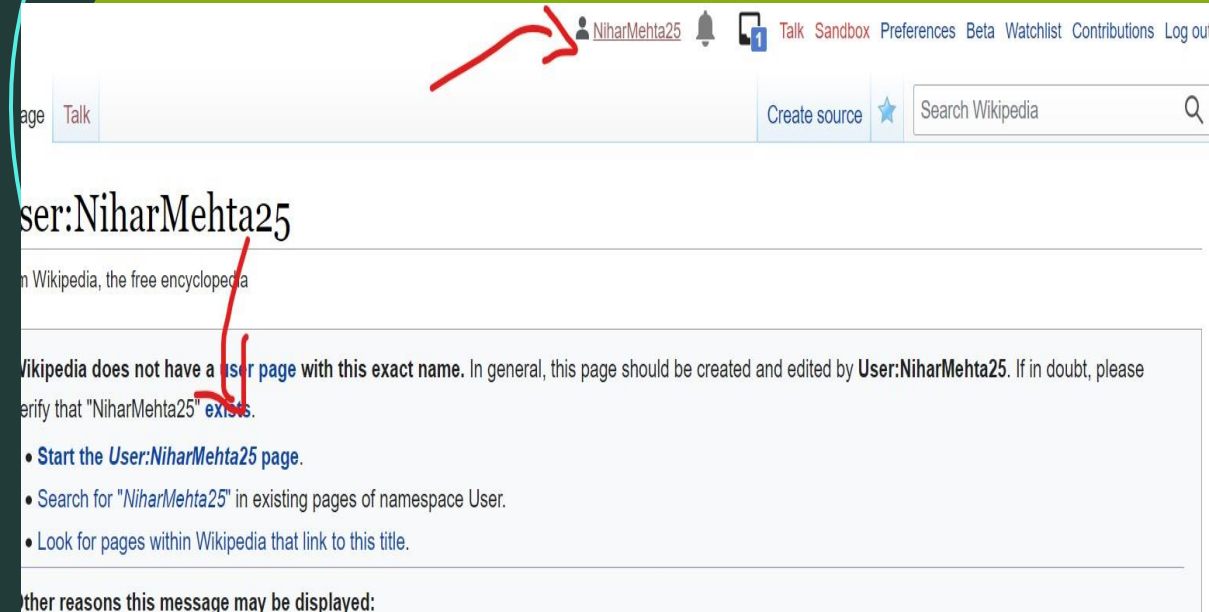
- 1)Rajesh Tyagi - 64
- 2)Khan Abdul Zaid - 22
- 3)Nihar Mehta -29
- 4)Ansari Akhtar Yusuf - 70
- 5)Gaurav Vadhvana -86
- 6)Priya Yadav - 69
- 7)Adnan Shaikh - 54
- 8)Rizwan Khan -78

# Creating a User Page

- Creating a User Page will help you to get involved with the community of Wikipedia editors and is also a helpful step in ensuring that other Wikipedia users can contact via your User Page to discuss changes you make.
- It is also the first step to ensuring that your edits are not deleted.
- As with articles, you can edit your User Page either using wiki markup or using the Visual Editor, which is currently in beta.
- You can learn more about these options on the Making Edits tab.

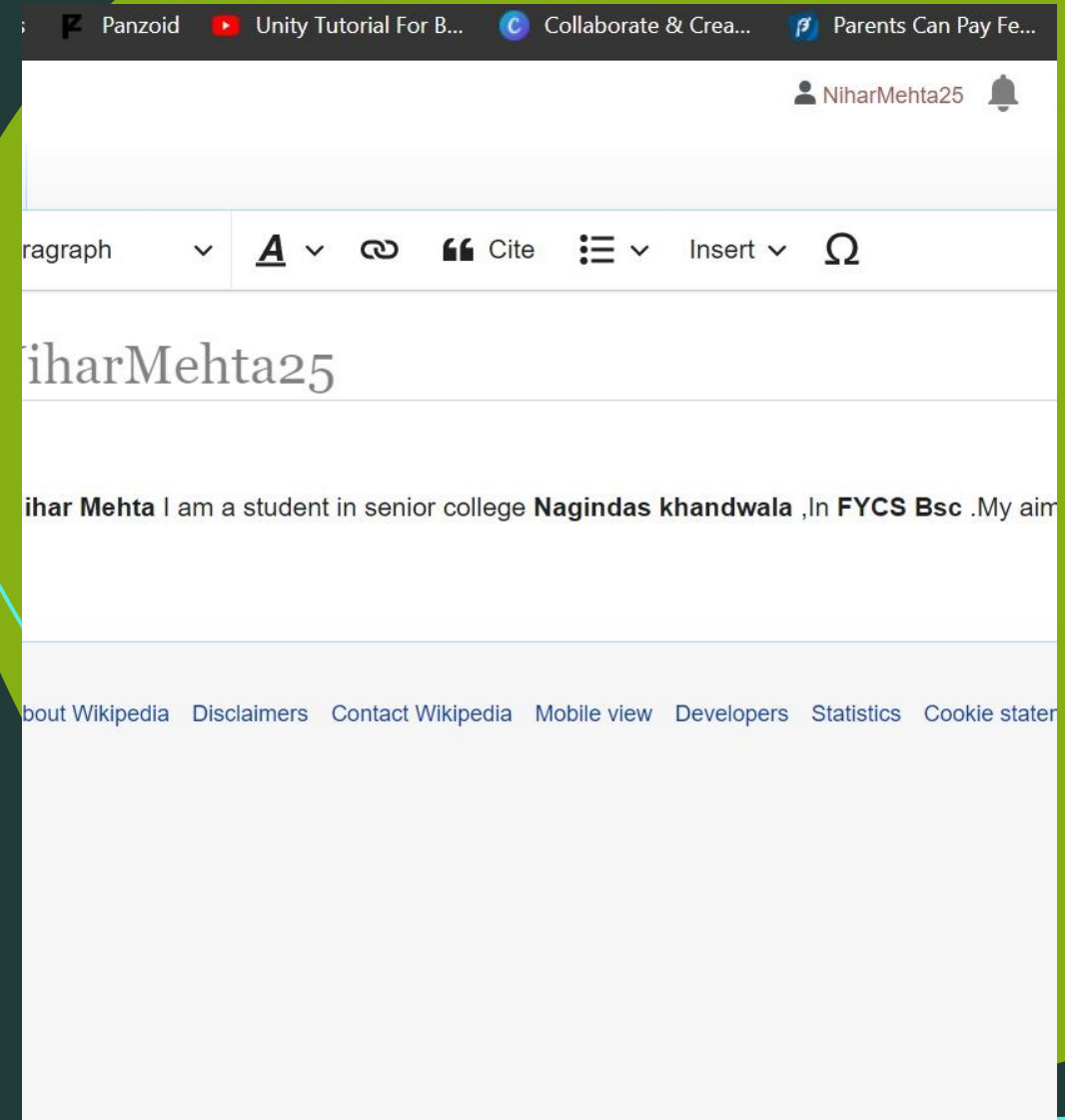
## *How to create user page*

- Click on your account name .
- Then click on the "Start the User" as shown.
- You will have two option visual editing and source editing



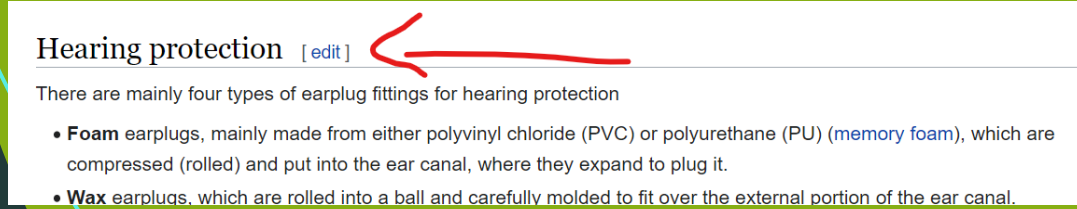
**You can create your own page**



**There are many editing option available along with adding the site link as well.**



# Edit Source

- If you would prefer, you can edit Wikipedia content using the Edit Source tab that appears at the top of each page.
- Wikipedia screenshot showing Edit Source tab.



- 
- You can do this even without creating an account, though if you do not log into an account, your IP Address will be recorded and made public with your edits.
  - If you choose to edit Wikipedia this way, you will need to use wiki markup or wiki code to make changes.
  - Wikipedia maintains a list of basic wiki markup syntax in their help section.
  - While the learning curve for this approach is greater, it will also give you somewhat greater control over your edits.
- 

# Features of user page

- CREATING AN ARTICLE
- While editing existing articles is the best way to get started as a contributor to Wikipedia, once you have made some edits, you may wish to create a brand new article from scratch.
- This tutorial from Wikimedia Commons gives a quick introduction to creating such an article on Wikipedia.



# Protection user page

- Most pages on Wikipedia are only protected temporarily, to prevent edit wars or to control vandalism.
- You should be able to edit the page when it is unprotected in a short while.
- In the meantime, please feel free to discuss the changes you want to make on the talk page of the page in question.
- However a few types of pages are protected indefinitely.
- The Main page and all pages and images included onto it, via cascading(cascaded::- something arranged or occurring in a series) protection.
- Pages in the Media Wiki namespace, which contain system messages and text for the user interface.

- UPLOADING CONTENT
- Wikimedia Commons
- Once you have your Wikipedia account, you can also add images to Wikipedia's sister project, Wikimedia Commons. Log in to Wikipedia, and then scroll down to the bottom of the main Wikipedia page to find the Wikimedia Commons link.
- Screenshot of Wikipedia sister projects, highlighting Wikimedia Commons
- To get started, click on Upload File from the left menu, or the blue Upload button. Wikimedia Commons will then walk you through the process of uploading material and choosing the appropriate license.

