



**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.Abbay Gupta**

**Roll No: 15                      Programme: BSc IT/CS                      Semester: II**

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

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

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**External Examiner**

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

**Date of Examination: (College Stamp)**

Name: Abhay Gupta

Roll No: 15

Sr. No.	DATE	TITLE	SIGN
1.	2/2/21	INTRODUCTION and CONTRIBUTING TO WIKIPEDIA a) What is Wikipedia? b) Steps to Create Account on Wikipedia c) Creating Page on Wikipedia d) Edit your page	
2.	9/2/21	Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.	16/2/21	BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE a) Describe Open-Source Software with Example. b) Describe Free Software with Example c) Difference between Free and Open-Source Software.	
4.	23/2/21	WRITING EMAIL	
5.	25/2/21	Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.	02/3/21	WRITING BLOGS	
7.	09/3/21	Implementing coding practices in Python using PEP8.	
8.	18/3/21	PRESENTATION: _____	



# WIKIPEDIA

The Free Encyclopedia

PRACTICAL NO. 1

## ABSTRACT

This Document will help you learn and understand; How to create account on Wikipedia, how to get your own Wikipedia page created and learn to edit that too.

It is an easy and a simplified way to get familiar with Wikipedia.

**Abhay Gupta**

## **Practical No. 1 Introduction and Contribution to Wikipedia**

**A) Description about Wikipedia and its features: -**

### **Description about Wikipedia:-**

Wikipedia is a free, open content online encyclopaedia created through the collaborative effort of a community of users known as Wikipedians. Anyone registered on the site can create an article for publication; registration is not required to edit articles.

The site's name comes from wiki, a server program that enables anyone to edit Web site content through their Web browser.

Jimmy Wales and Larry Sanger co-founded Wikipedia as an offshoot of an earlier encyclopaedia 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.

### **Features About Wikipedia:-**

#### **1.) Tools :-**

##### **i.) Learn to Edit :-**

Published pages can be edited by anyone that reads them. If, for example, you notice that a page created by someone else contains inaccurate/outdated information, you can open the editing screen and correct that information directly. Just "Submit", and the page's contents will update immediately.

##### **ii.) Special Pages :-**

This page contains a list of 'Special Pages' of the content of these pages is automatically generated and cannot be edited. To make any change/edit one must have to talk to the Administrator.

##### **iii.) Link between pages :-**

Linking between Wiki pages makes it easier for readers to find secondary materials they may need, especially as your Wiki grows.

For example, you can simply add brackets around another Wiki page's title (e.g. [[ Example Page Title ]]) to automatically link to that page.

## 2.) Contribute :-

### I. Help :-

The contribute section of Wikipedia have the 'HELP' which Guide us to how to use and edit Wikipedia. This feature is in the contribute section.

### II. Community Portal :-

They have the community portal which provide the "The hub for editors " in the contribute section.

### III. Recent Changes :-

If someone has made changes in the Wikipedia page and wants the history of the recent change made by "Him/Her" can be easily be seen in the "recent changes" in the contribute section.

### IV. Upload File:-

Lastly the option to upload the file, where you add images and other media for the use of Wikipedia.

## 3.) Print/Export :-

### I. Download as PDF :-

A very useful feature is provided to us which is "Download as PDF" ; As the option explains itself, you can download your required Wikipedia Page as Pdf and read it offline whenever required.

### II. Printable version :-

It also gives the option to print your given page. It is named as "Printable version".

## B) Creating Account on Wikipedia:-

STEPS FOR CREATING ACCOUNT :

**STEP 1:- SEARCH 'WIKIPEDIA.ORG' AND SELECT YOUR LANGUAGE.**

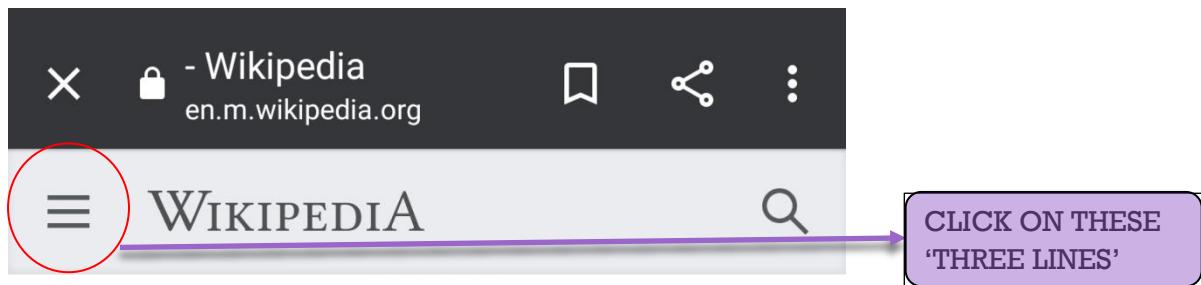
The screenshot shows the main Wikipedia homepage. At the top left is the Wikipedia logo and the URL 'wikipedia.org'. A red oval highlights the URL. A yellow arrow points from this oval to a purple box containing the text 'SEARCH THIS ON YOUR BROWSER' and 'CLICK ON THE FIRST LINK AND THE FOLLOW PAGE WILL BE OPENED'. Below the URL is the Wikipedia globe logo. To the left of the globe, the 'English' link is circled in red, with a yellow arrow pointing to a purple box containing the text 'SELECT 'YOUR' LANGUAGE'. To the right of the globe, other language links are listed: Deutsch, Русский, Italiano, Polski, 日本語, Español, Français, 中文, Português, and others. At the bottom of the page is a search bar with the text 'EN ▾' and a magnifying glass icon. Below the search bar is a button labeled 'Read Wikipedia in your language ^'. The page lists various languages with their article counts, such as English (6,245,000+ articles), Deutsch (2,534,000+ Artikel), and many others. The entire page is framed by a light gray border.

1 000 000+ articles					
العربية	Français	日本語	Sinugboanong	Tiếng Việt	
Deutsch	Italiano	Polski	Binisaya	Winaray	
English	مصرى	Português	Svenska	中文	
Español	Nederlands	Русский	Українська		

100 000+ articles					
Asturianu	Dansk	Bahasa Indonesia	Bahaso	Română	ລາວພາໄທນ
Azərbaycanca	Eesti	תַּרְבִּית	Minangkabau	Simple English	Тоҷикӣ
Български	Ελληνικά	ქართული	မြန်မာဘာသာ	Slovenčina	ئۇركچى
Bân-lâm-gú / Hô-	Esperanto	Latina	Norsk (bokmål)	Slovenščina	Türkçe
Ilokano	Euskara	Latviešu	nynorsk	Српски / Srpski	اردو
বাংলা	فارسی	Lietuvių	Нохчийн	Srpskohrvatski /	Volapük
Беларуская	Galego	Magyar	Ӯзбекча /	Српскохрватски	粵語
Català	Հայերեն	Македонски	Ўзбекқа	Suomi	한국어
Čeština	हिन्दी	Bahasa Melayu	Қазақша /	தமிழ்	
Cymraeg	Hrvatski		Qazaqsha / قازاقشا	Татарча / Tatarça	

10 000+ articles					
Bahsa Acèh	Brezhoneg	Ирон аевзаг	ମଲାଯାଲମ୍	ଓଡ଼ିଆ	Ślůnski
Afrikaans	Чӑвашла	Íslenska	文言	ਪੰਜਾਬੀ (ਗੁਰਮੁਖੀ)	Basa Sunda
Alemannisch	Diné Bizaad	Jawa	ମରାଠୀ	پنجابی (شہ مکھی)	Kiswahili
አማርኛ	Emiglìàñ-	କଞ୍ଚାଙ୍କ	ମହାରାଜ୍ଯାଳୁଗିରି	ଓଡ଼ିଆ	Tagalog
Aragonés	Rumagnòl	Kreyòl Ayisyen	هڻڻوڻ	Piemontèis	ଓଡ଼ିଆ
Basa	Føroyskt	Kurdî / کوردی	Ming-dëng-ngû /	Plattdüütsch	ଓଡ଼ିଆ / Basa
Banyumasan	Frysk	کوردیب ناووندی	閩東語	Runa Simi	Ugi
Башҡортса	Gaeilge	Кыргызча	Монгол	ස්කෑට්මන්	Véneto
Беларуская	Gàidhlig	Кырык Мары	ମେପାଳ ଭାଷା	Саха Тыла	Walón
(ତାରଶକେବିପା)	ગુજરાતી	Lëtzebuergesch	ମେପାଳୀ	Scots	吳語
Bikol Central	Hornjoserbsce	Limburgs	Nnapulitano	Shqip	ଶ୍ରୀଲଙ୍କା
ବିଜୁକ୍ତିଶ୍ୱାସଣିମୁଦ୍ରା	Ido	Lombard	Nordfrisk	Sicilianu	Yorùbá

## STEP 2:- THE FOLLOWING PAGE WILL BE OPENED.



Welcome to **Wikipedia**,  
the free encyclopedia that anyone can edit.  
6,248,936 articles in English

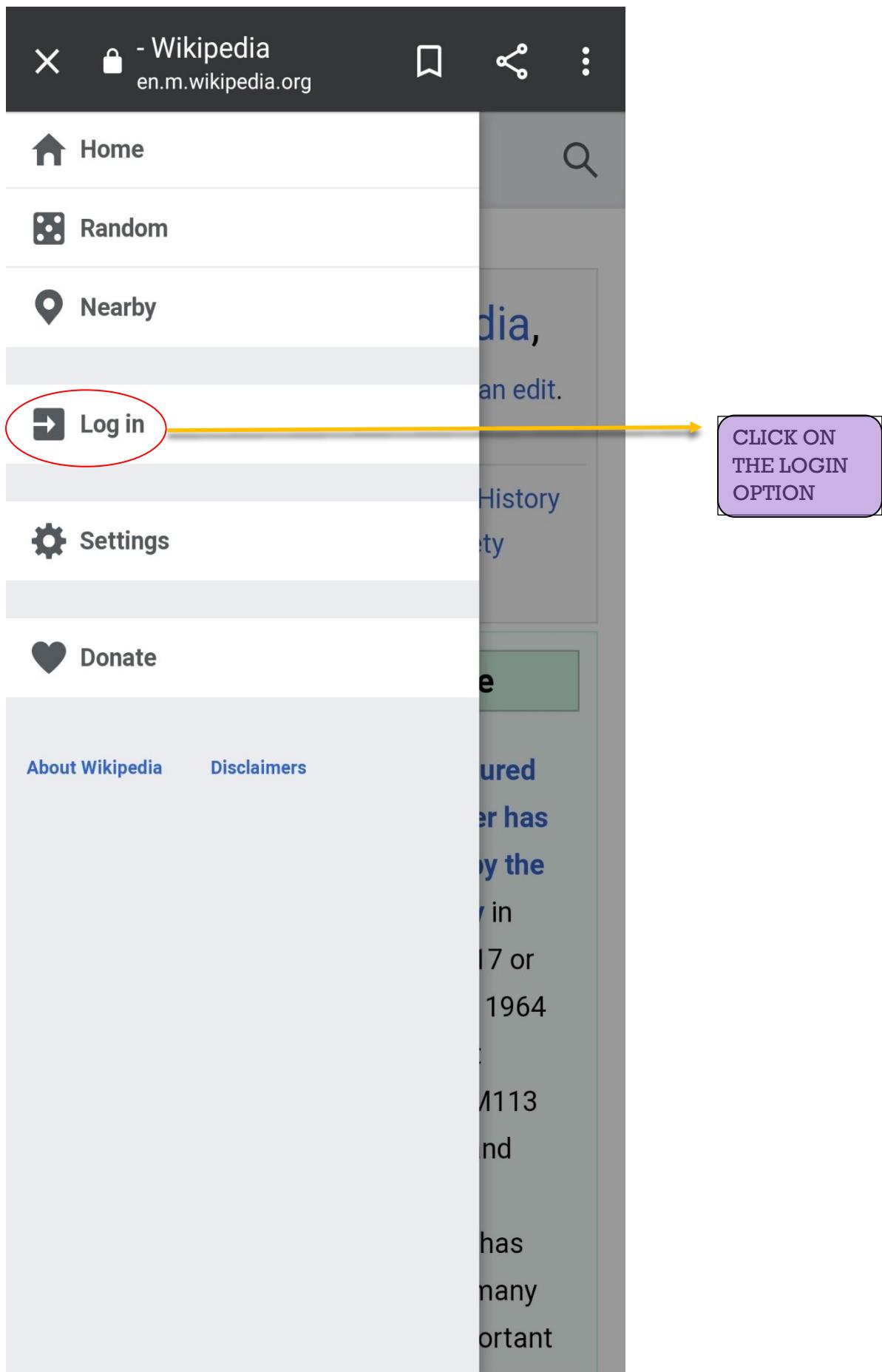
The arts Biography Geography History  
Mathematics Science Society  
Technology **All portals**

### From today's featured article



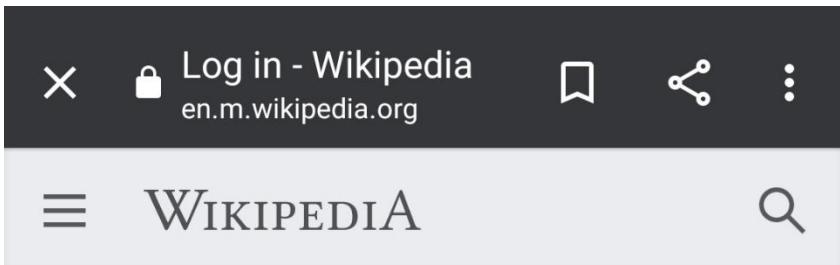
The **M113 armoured personnel carrier has been operated by the Australian Army** in large numbers since 1964. Either 817 or 840 M113s were acquired between 1964 and 1979, comprising nine different variants. In Australian service, the M113 has equipped armoured transport and

### STEP 3:- CLICK ON THE LOGIN OPTION.



**STEP 4:- IF YOU ALREADY HAVE AN ACCOUNT DO LOGIN, IF NOT STAY TUNE...**

**IF YOU DON'T HAVE AN ACCOUNT ON WIKIPEDIA; CLICK ON THE 'JOIN WIKIPEDIA' OPTION ;)**



**Log in**

**Wikipedia is made by people like you.**

Log in to contribute.



Enter your username

Enter your password

**Log in**

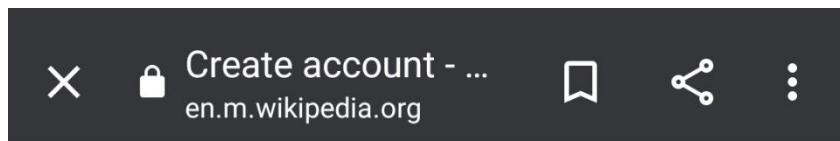
[Forgot your password?](#)

[Don't have an account?](#)

**Join Wikipedia**

**CLICK ON 'JOIN WIKIPEDIA'**

## STEP 5:- CHOOSE A USERNAME AND MAKE PASSWORD.



**Wikipedia is made by people like you.**

Log in to contribute.



Abhaygupta7121

.....

.....

abhaygupta7121@gmail.com

FILL THE FOLLOWING DETAILS

caskhence

⟳ Refresh

caskhence

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

FILL THE ABOVE GIVEN CAPTCHA CODE AS IT IS

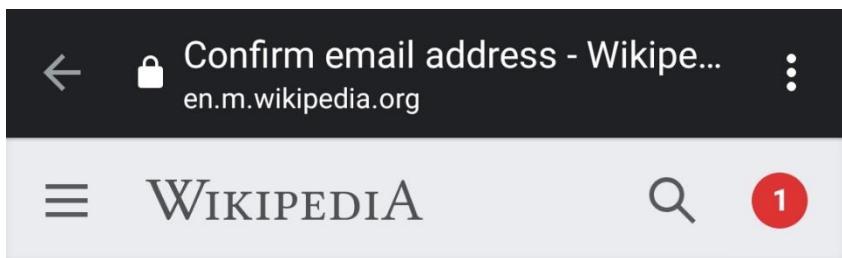
Create your account

CLICK ON THIS TO CREATE YOUR ACCOUNT

**STEP 6:- CONFORMATION ON EMAIL ID.**

**YOU WILL RECEIVE AN EMAIL FOR THE CONFORMATION TO THE EMAIL ID,**

**WITH A ‘LINK’ PROVIDED IN THE EMAIL CLICK ON IT AND YOU WILL GET THIS PAGE.**

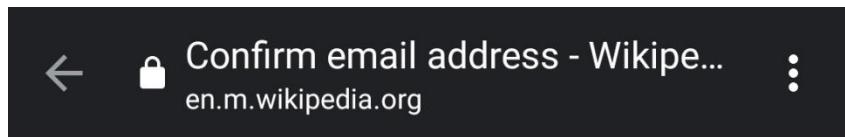


## Confirm email address

Your email address has now been confirmed.

A screenshot of a mobile Wikipedia page. The page title is "Confirm email address". The main content area displays the message "Your email address has now been confirmed." Below this, the Wikipedia logo is visible, followed by a horizontal line and the copyright notice "Content is available under CC BY-SA 3.0 unless otherwise noted." At the bottom of the page, there are links for "Terms of Use", "Privacy policy", and "Desktop".

## **YOUR ACCOUNT ON 'WIKIPEDIA' .**



**X Notifications**



**W** Welcome to Wikipedia,  
Abhaygupta7121! We're glad you're  
here.

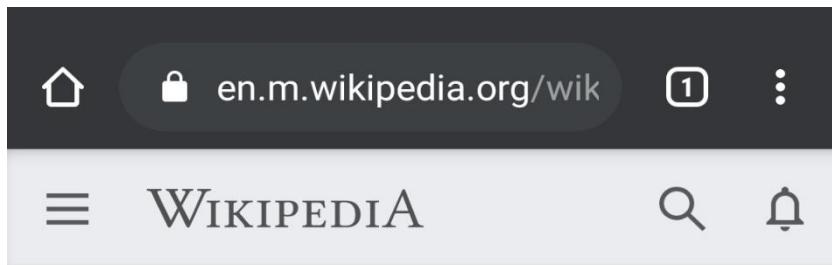
26s

**NOW YOU HAVE FINALLY  
CREATED YOUR ACCOUNT  
ON WIKIPEDIA...  
GREAT SUCCESS. ;)**

**C) Creating your page on Wikipedia :-**

STEPS FOR CREATING YOUR PAGE ON WIKIPEDIA

**STEP 1 :-**



# Abhaygupta7121

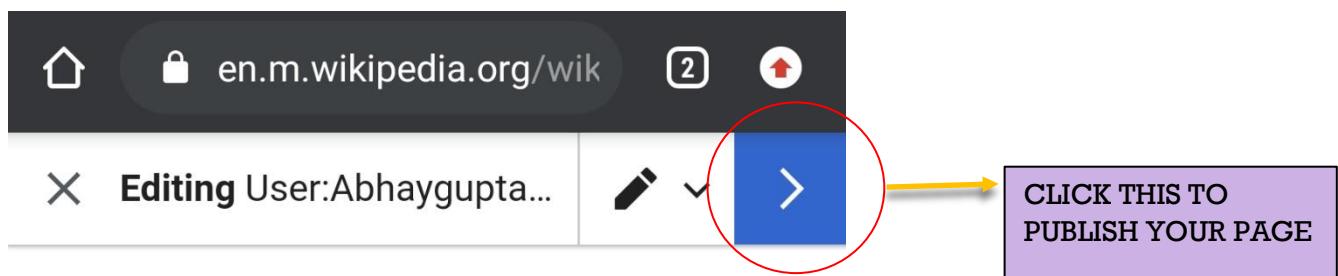
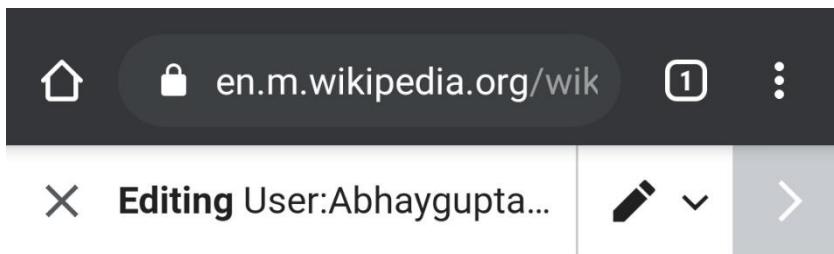
Joined 2 days ago

User page Talk

The user page interface shows a placeholder profile picture and a message: 'You don't have a user page yet'. Below it, instructions say: 'You can describe yourself to fellow editors on your user page'. A blue button labeled 'Create your own' is highlighted with a red oval. A yellow arrow points from this button to a purple callout box containing the text: 'CLICK ON THIS TO GET START WITH YOUR WIKIPEDIA PAGE CREATION'.



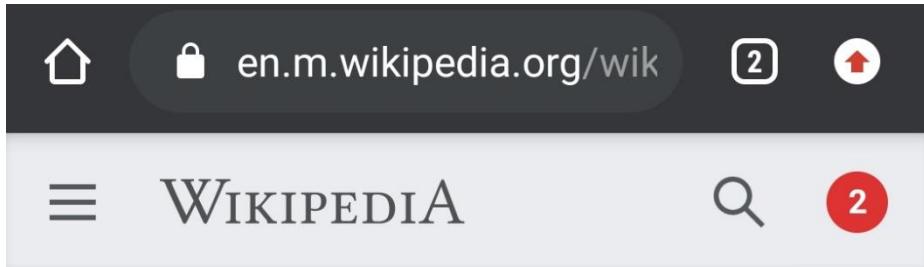
**STEP 2 :- AFTER YOU CLICK ON ‘CREATE YOUR OWN’ OPTION YOU WILL GET THIS INTERFACE, HERE YOU TYPE YOU CONTENT YOU WANT TO PUBLISH.**



PERCEPTION

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

**YOUR PAGE IS CREATED!!!**



# Abhaygupta7121

Joined 2 days ago

User page Talk



## PERCEPTION

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 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.

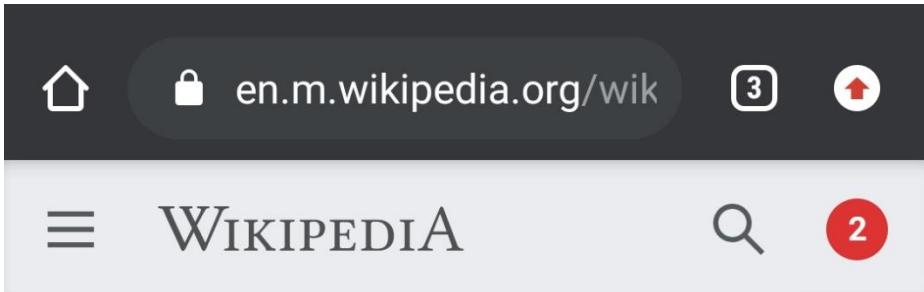
Congratulations on creating a new page!

**YOUR PAGE IS  
CREATED.**

**GREAT SUCCESS ;)**

## D) EDITING YOUR PAGE ON WIKIPEDIA :-

STEP :- 1



# Abhaygupta7121

Joined 2 days ago

User page Talk



## PERCEPTION

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 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.

CLICK THIS  
BUTTON TO EDIT  
YOUR PAGE

**STEP :- 2 AFTER CLICK ON THE ‘EDITI OPTION’ YOU WILL GET THE OPTION FOR EDITING YOUR SOURCE AND VISUAL OF THE TEXT.**

The screenshot shows a mobile browser window for en.m.wikipedia.org. At the top, there's a navigation bar with a home icon, a lock icon, the URL, a '3' indicating multiple tabs, and a red arrow icon. Below this is a toolbar with a close button ('X'), the text 'Editing User:Abhaygupta...', a blue pen icon, a dropdown arrow, and a right-pointing arrow. A red circle highlights the 'Visual editing' option, which is selected (indicated by a blue dot). A yellow arrow points from this circle to a purple callout box on the right. The callout box contains the text: 'SELECT THE EDITING OPTION ACCORDING TO YOUR PREFERENCE'. The main content area displays a text about the impact of a lockdown, followed by a paragraph from Darwin about survival of the fittest, and a concluding paragraph about the power of the mind in fighting against adverse conditions.

PERCI

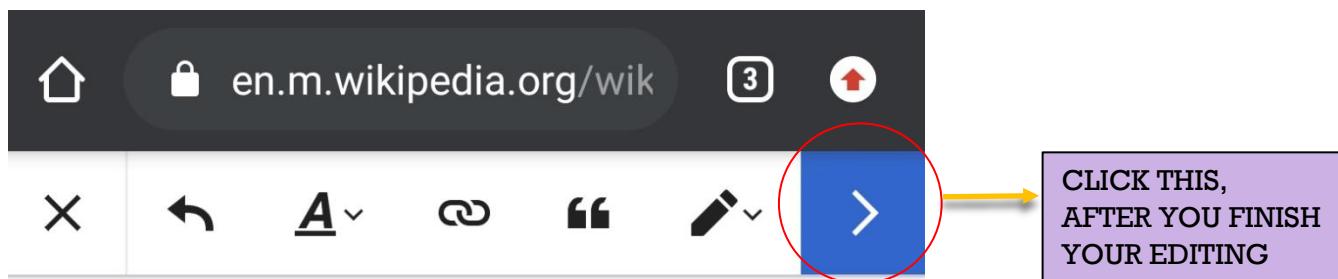
Visual editing

Source editing

During 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 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

### STEP 3 :- AFTER THE EDIT IS COMPLETED



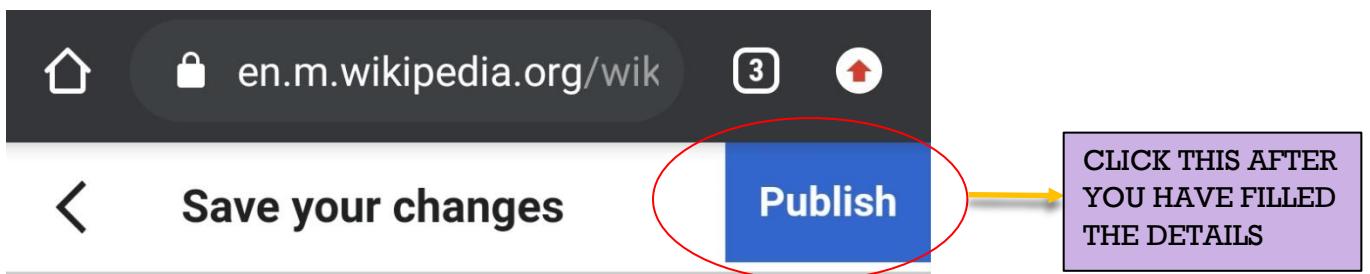
PERCEPTION :)

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 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 a 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. 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

STEP 4 :-



Edit summary (Briefly describe your changes)

Describe what you changed

This is a [minor edit](#)

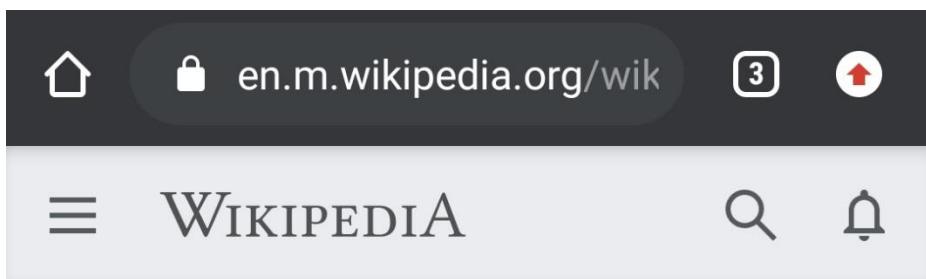
Watch this page

FILL THE CHECKBOXES ACCORDING TO THE CHANGE DONE IN YOUR PAGE

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



**YOUR EDIT IS SUCCESSFULLY PUBLISHED....**



# Abhaygupta7121

Joined 2 days ago

User page Talk



PERCEPTION :)

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 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

em  
Success! Your edit was published.  
Ma

**YOUR EDIT IS  
PUBLISHED**

**GREAT SUCCESS ;)**

**WE HAVE FINALLY LEARNED**

**TO :-**

- A) Description about Wikipedia and its features.
- B) Creating Account on Wikipedia.
- C) Creating your page on Wikipedia.
- D) Editing your page on Wikipedia.

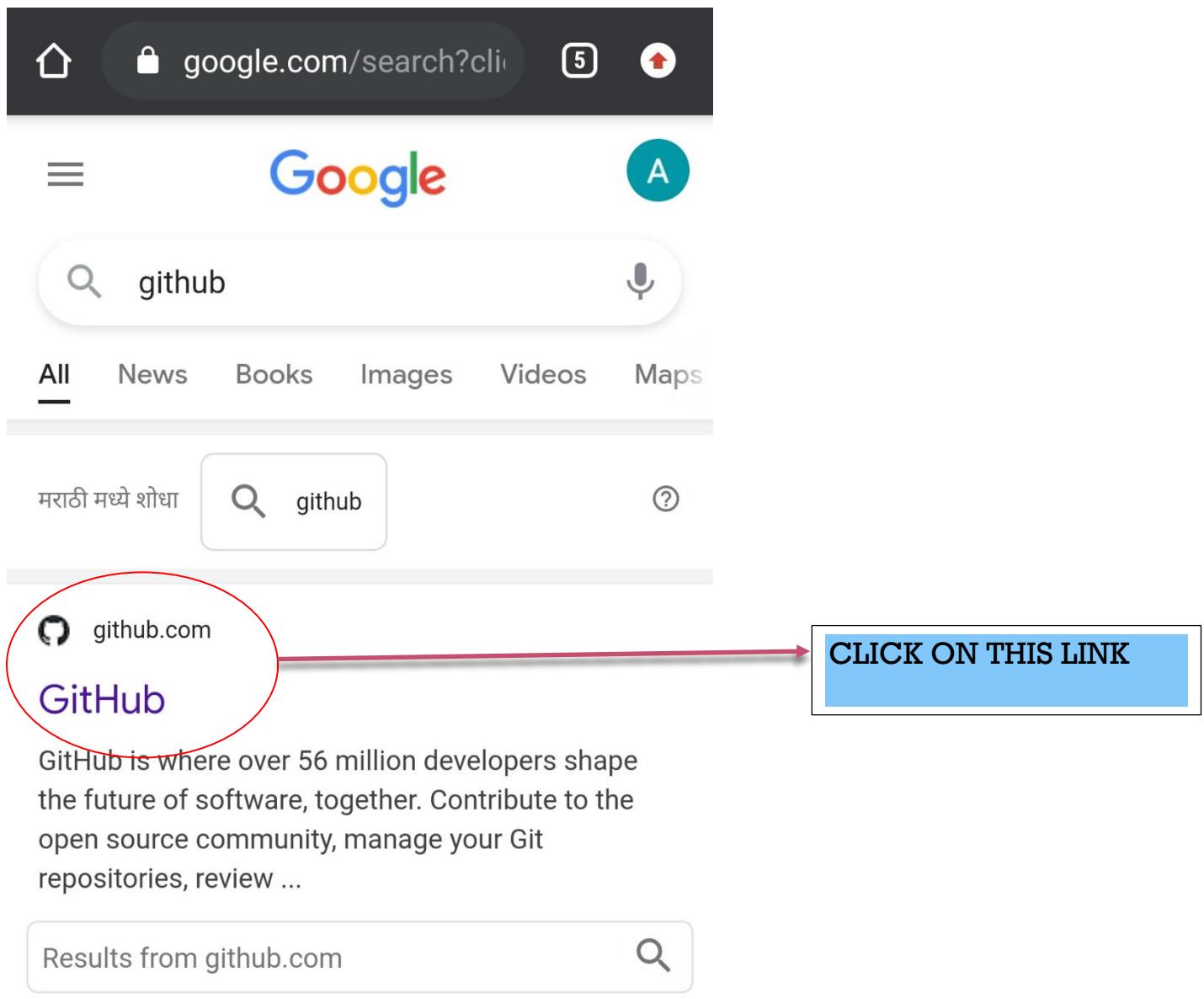
***Thank You :)***



## Practical No. 2 Creating account, repository on GitHub and Cloning repository in GitHub

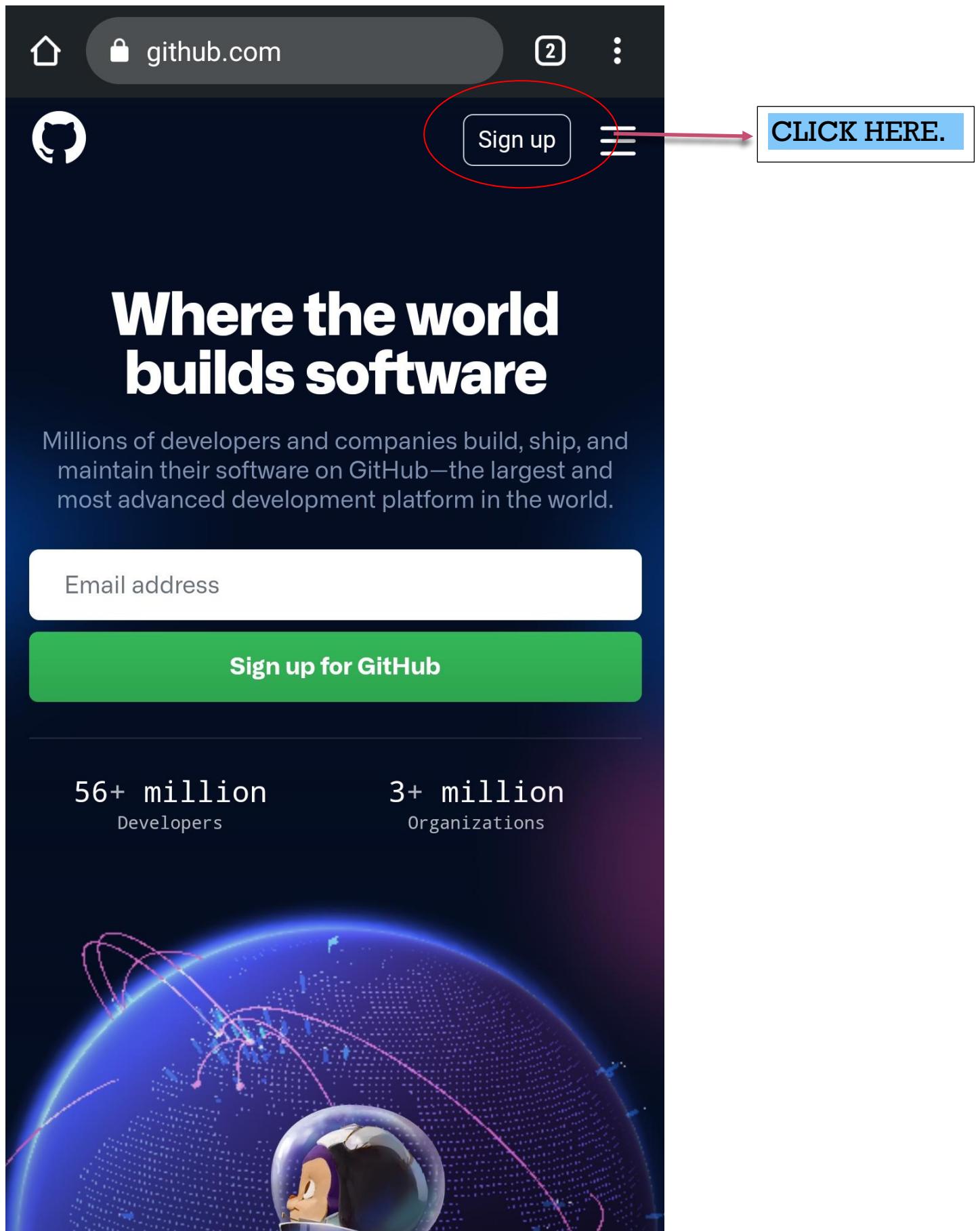
### A) Creating account on GitHub :-

Step 1 :- Search 'GitHub' on Google and click on the official link of GitHub.

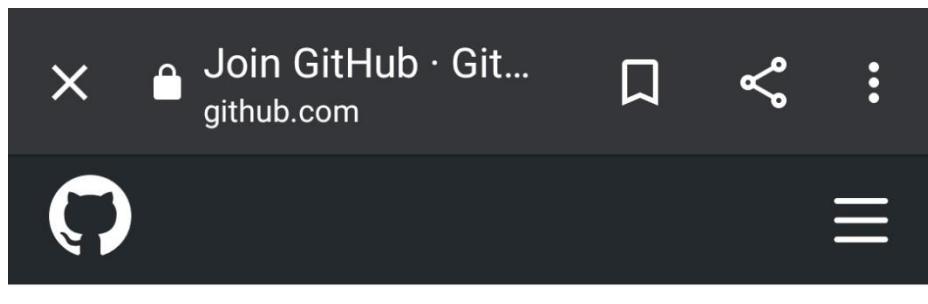


Session

**Step 2 :- Click on the ‘Sign Up’ button to into the GitHub account.**



**STEP 3 :- Fill the username , Make password and click on create Account.**



## Join GitHub

**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](#).

### Email preferences

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

### Verify your account

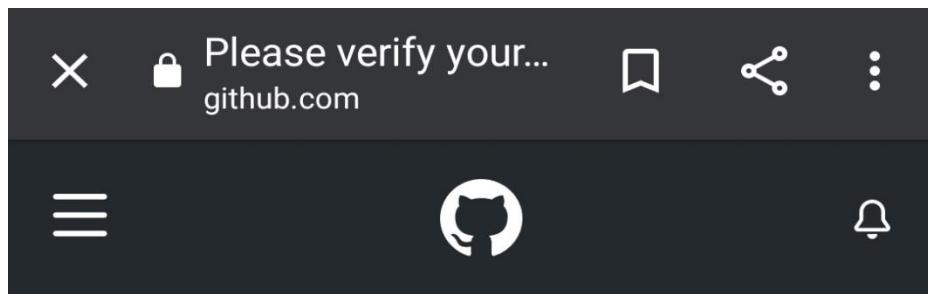
Please solve this puzzle so we know you are a real person

Fill up the following details

Click on verify to get yourself verified

## STEP 4:- VERIFY YOUR EMAIL ADDRESS

YOU WILL GET AN EMAIL FROM GITHUB TO VERIFY YOUR EMAIL ADDRESS

An image of a GitHub verification email. At the top, there's a cartoon GitHub logo. Below it, a red oval highlights the text "Please verify your email address". An arrow points from this highlighted text to a blue rectangular button labeled "VERIFY YOUR EMAIL ID". The main body of the email says: "Before you can contribute on GitHub, we need you to verify your email address." Below this, it states: "An email containing verification instructions was sent to programmerabhay007@gmail.com." There are two blue buttons at the bottom: "Resend verification email" and "Change your email settings".

Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to  
[programmerabhay007@gmail.com](mailto:programmerabhay007@gmail.com).

[Resend verification email](#)

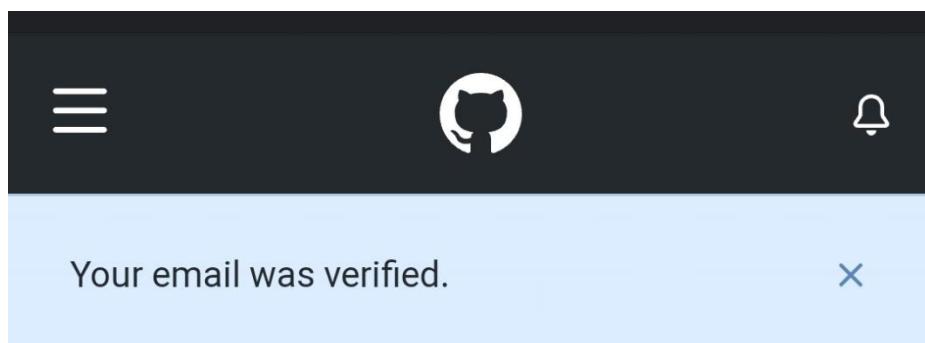
[Change your email settings](#)

VERIFY YOUR EMAIL ID

**GitHub**

## B) CREATEING REPOSITORY IN GITHUB

STEP 1 :- CLICK ON THE ‘CREATE REPOSITORY’ TO START CREATING YOUR REPOSITORY



# What do you want to do first?

Every developer needs to configure their environment, so let's get your GitHub experience optimized for you.

An illustration featuring two cartoon characters. One character is blue and the other is yellow. They appear to be working together on a project, with tools like a wrench, a screwdriver, and a lightbulb scattered around them. The background shows simple furniture like a desk and shelves.

**Start a new project**

Start a new repository or bring over an existing repository to keep contributing to it.

[Create a repository](#)

**CLICK  
HERE**

## STEP 2 :- Fill the username , Make password and click on create “REPOSITORY”



### Create a new repository

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

Owner \*

abhaygupta7 /

Repository name \*

upgraded-meme

Great repository names are short and memorable.  
Need inspiration? How about [upgraded-meme](#)?

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](#).

Add .gitignore

Choose which files not to track from a list of templates. [Learn more](#).

Choose a license

A license tells others what they can and can't do with your code. [Learn more](#).

Create repository



FILL UP THE FOLLOWING DETAILS AS SHOWN



CLICK THIS

AFTER FILL THE ABOVE DETAILS

# C) CLONING REPOSITORY

After you create repository you will reach on this page

Step 1: Click on the code button and copy the link/URL.

The screenshot shows a GitHub repository page for 'abhaygupta7 / laughing-couscous'. At the top, there's a search bar and navigation links for Pulls, Issues, Marketplace, and Explore. Below the header, a green banner says 'Learn Git and GitHub without any code!' with a 'Read the guide' button. The main content area shows the repository details: 'Code' tab selected, 1 pull request, 0 stars, and 1 issue. A red circle highlights the 'Code' button in the top right of the main content area. A green arrow points from this button to a blue box containing the text 'CLICK HERE FIRST'. Below the button, there's a 'Clone' section with options for HTTPS, SSH, and GitHub CLI, along with a URL: 'https://github.com/abhaygupta7/laug...'. A red circle also highlights this section. A green arrow points from this section to another blue box containing the text 'COPY THE 'URL''. The repository has one file, 'README.md', with an 'Initial commit'. At the bottom, there are sections for Packages and Releases, both of which are currently empty.

Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

Read the guide

abhaygupta7 / laughing-couscous

Code Issues Pull requests Actions Projects Wiki Security Insights

main ▾

Go to file Add file ▾ Code ▾

Clone HTTPS SSH GitHub CLI New

https://github.com/abhaygupta7/laug...

No description, web topics provided.

Readme

Releases

Download ZIP

No releases published Create a new release

Packages

No packages published Publish your first package

laughing-couscous

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**CLICK  
HERE FIRST**

**COPY THE  
'URL'**

## STEP 2 :- Now click on the ‘+’ and the ‘IMPORT REPOSITORY’ option

The screenshot shows a GitHub user profile page for 'github.com/abhaygupt'. A context menu is open at the top right, with the 'Import repository' option highlighted by a red circle. A green arrow points from this highlighted option to a blue box containing the text 'Click Here'.

Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a

Read the guide

jgupta7 / laughing-couscous

Unwatch 1 Star 0 Fork 0

Issues Pull requests Actions Projects Wiki Security Insights ...

Go to file Add file Code

rgupta7 Create IT Tools Practicals 38 seconds ago 2

ols Practicals Create IT Tools Practicals 38 seconds ago

ME.md Initial commit 4 minutes ago

nd

**gjting-couscous**

About

No description, website, or topics provided.

Readme

Releases

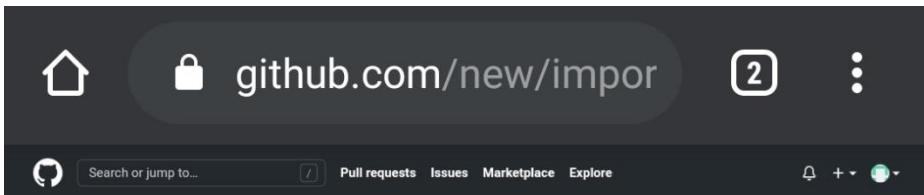
No releases published Create a new release

Packages

No packages published Publish your first package

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## STEP 3 :- NOW PASTE 'URL' FROM THE OLD REPOSITORY AND GIVE A NAME TO THE NEW REPOSITORY.



PASTE THE  
URL HERE

GIVE A NAME

CLICK HERE  
FOR  
IMPORTING  
THE  
REPOSITORY

NOW YOU HAVE SUCCESSFULLY CLONED YOUR  
REPOSITORY ;)

*Thank You :)*



# BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE

## A) Describe Open-Source Software with Example :-

Open-Source software can be understood and described as

### 1) Definition of Open-Source

Open-source software is software with source code that anyone can inspect, modify, and enhance.

### 2) Understanding Source code

"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

### 3) Open Sources Software Licences :-

Open-source licenses affect the way people can use, study, modify and distribute software. In general, open-source licenses grant computer users permission to use open-source software for any purpose they wish. Some open-source licenses—what some people call "**CopyLeft**" licenses—stipulate that anyone who releases a modified open-source program must also release the source code for that program alongside it. Moreover, some open-source licenses stipulate that anyone who alters and shares a program with others must also share that program's source code without charging a licensing fee for it.

open-source software licenses promote collaboration and sharing because they permit other people to make modifications to source code and incorporate those changes into their own projects. They encourage computer programmers to access, view, and modify open-source software whenever they like, as long as they let others do the same when they share their work.

## B) Describe Free Software with Example

### 1.) The Free Software Definition

"Free software" means software that respects users' freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software. Thus, "free software" is a matter of liberty, not price. To understand the concept, you should think of "free" as in "free speech," not as in "free beer". We sometimes call it "libre software," borrowing the French or Spanish word for "free" as in freedom, to show we do not mean the software is gratis.

### 2.) How to Recognize if it a free Software ?

A program is free software if the program's users have the four essential freedoms:

- i.) The freedom to run the program as you wish, for any purpose (freedom 0).

ii.) The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.

iii.) The freedom to redistribute copies so you can help others (freedom 2).

iv) The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

### C.) Difference Between Free and Open-Source Software.

#### **Free Software:**

1.) “Free software” means software that respects users’ freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software.

The term “free software” is sometimes misunderstood—it has nothing to do with price. It is about freedom.

2.) Software is an important part of people’s lives.

3.) Software freedom translates to social freedom.

4.) Freedom is a value that is more important than any economical advantage.

#### **Open-Source Software :**

1.) Open-Source Software is something which you can modify as per your needs, share with others without any licensing violation burden. When we say Open Source, source code of software is available publicly with Open-Source licenses like GNU (GPL) which allows you to edit source code and distribute it. Read these licenses and you will realize that these licenses are created to help us.

2.) Software is just software. There are no ethics associated directly to it.

3.) Ethics are to be associated to the people not to the software

4.) Freedom is not an absolute concept. Freedom should be allowed, not imposed.

#### Example of Free source software:-

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, the GNU Compiler Collection and C library; the MySQL relational database; the Apache web server; and the Sendmail mail transport agent.

#### Example of Open source software:-

Prime examples of open-source products are the Apache HTTP Server, the e-commerce platform osCommerce, internet browsers Mozilla Firefox and Chromium (the project where the vast majority of development of the freeware Google Chrome is done) and the full office suite LibreOffice.

Name :- Abhay Gupta

Subject :- It Tools

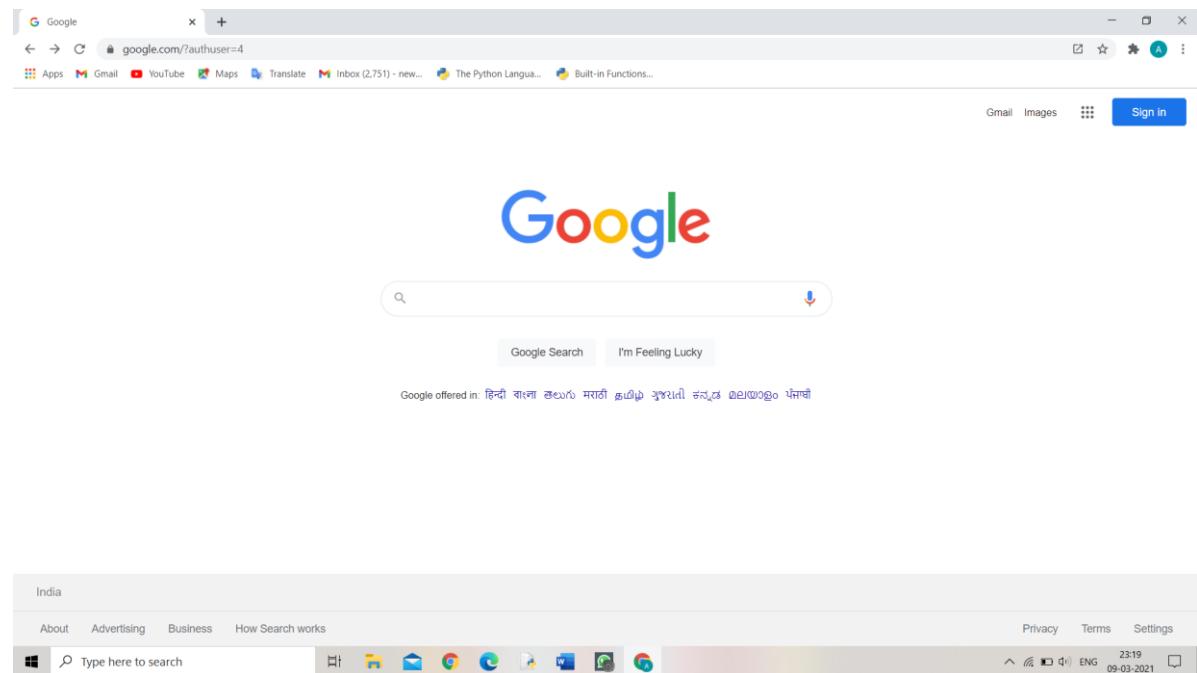
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Class :- FYIT/A

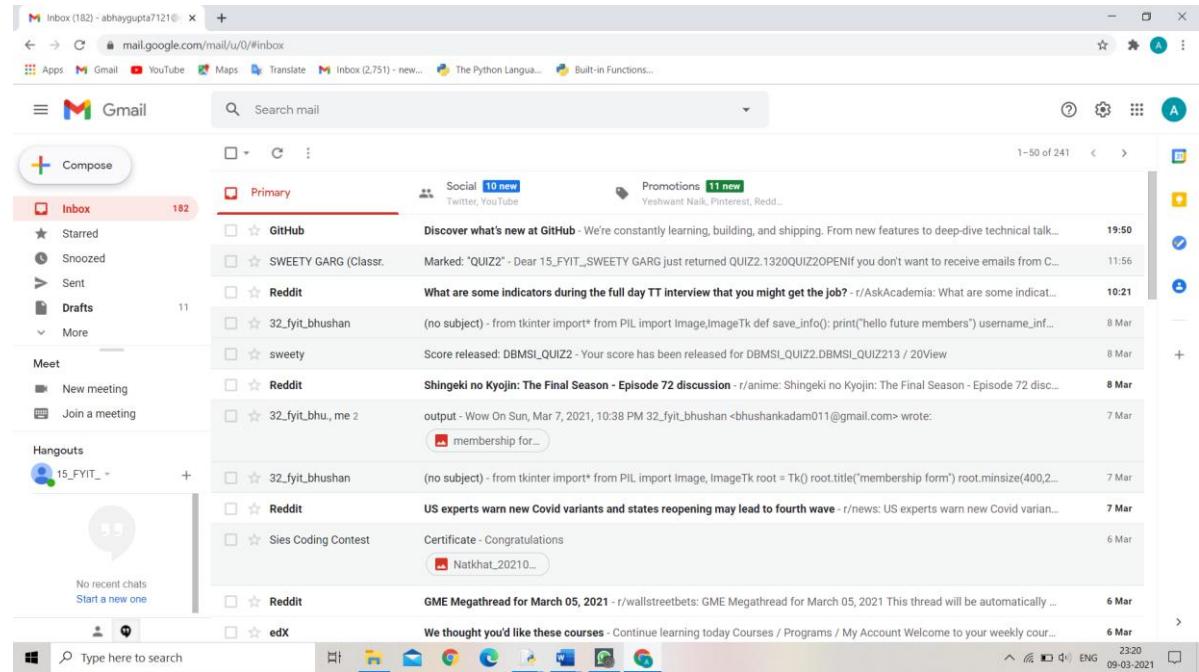
### Practical No 4

Aim: Writing Email

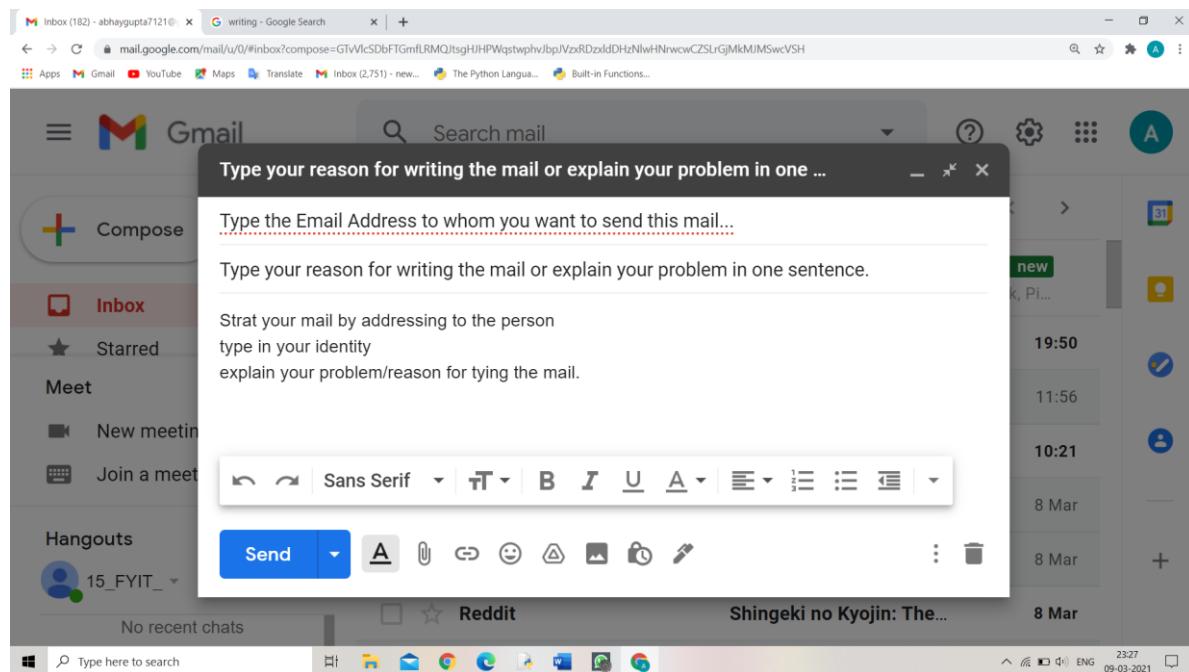
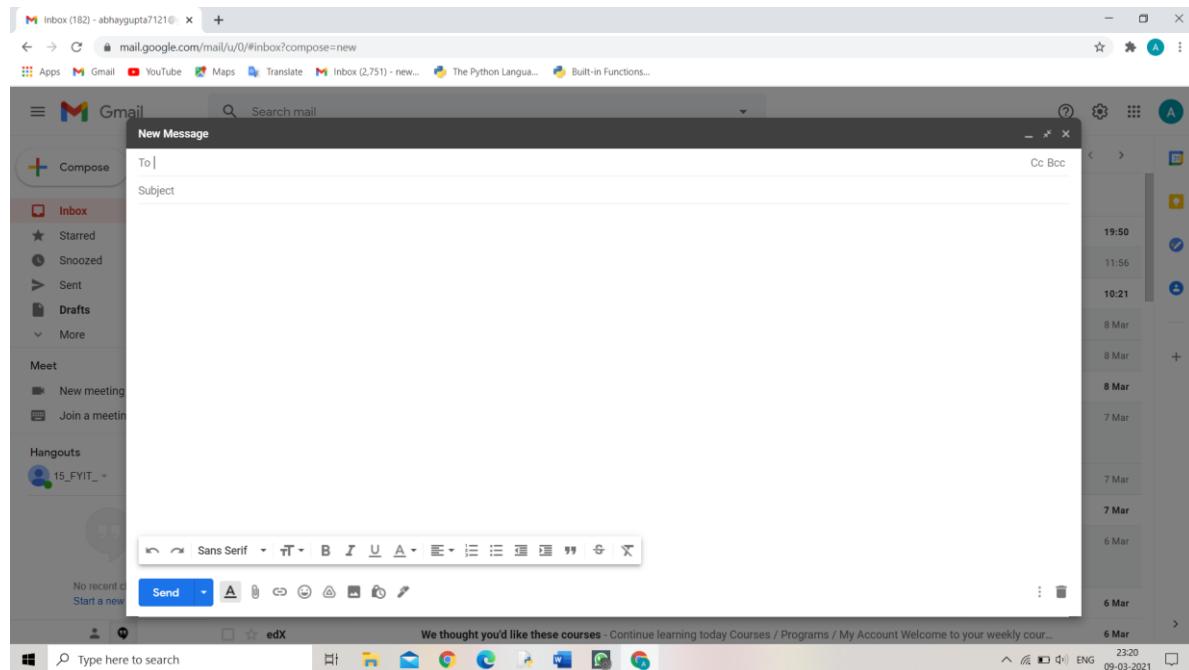
Step 1: Open your Gmail



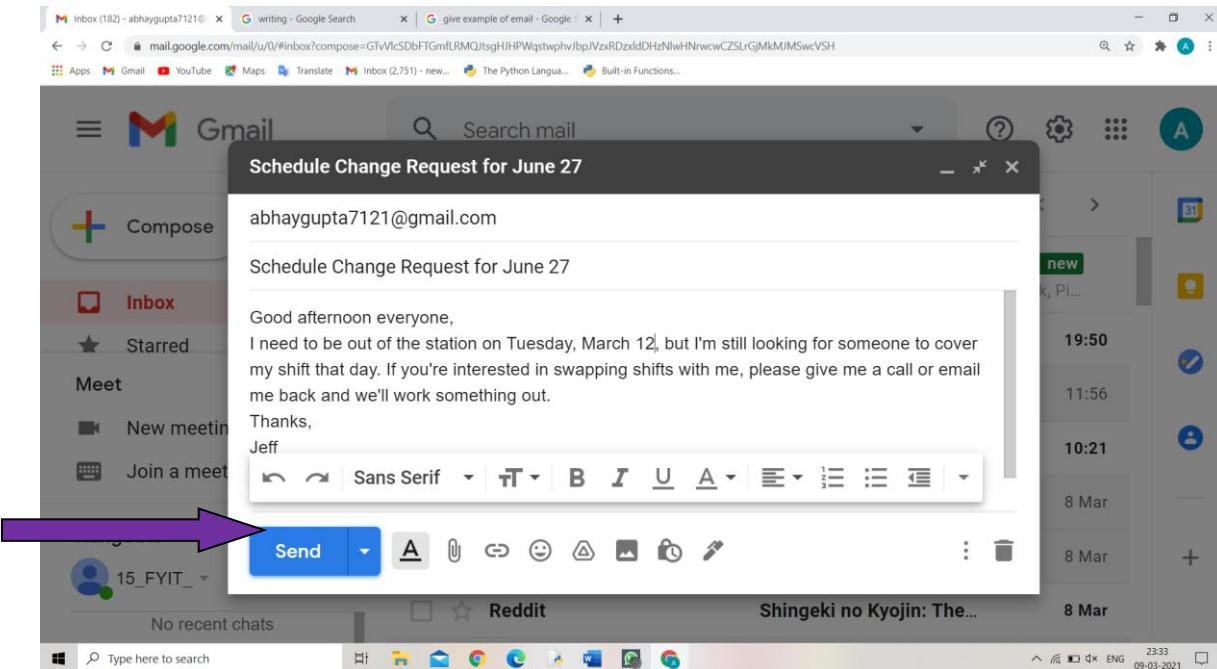
Step 2: Click on Compose to write a new Email



### Step 3:



#### Step 4: Sample Email:



Schedule Change Request for June 27

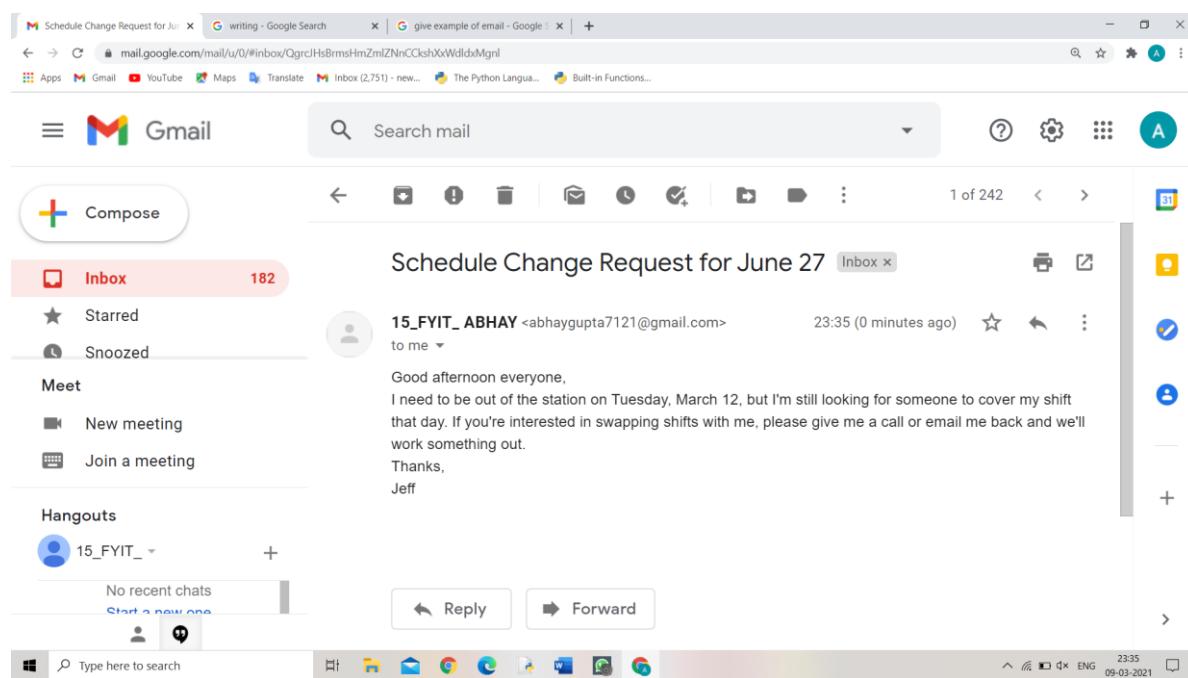
abaygupta7121@gmail.com

Schedule Change Request for June 27

Good afternoon everyone,  
I need to be out of the station on Tuesday, March 12, but I'm still looking for someone to cover my shift that day. If you're interested in swapping shifts with me, please give me a call or email me back and we'll work something out.

Thanks,  
Jeff

Send



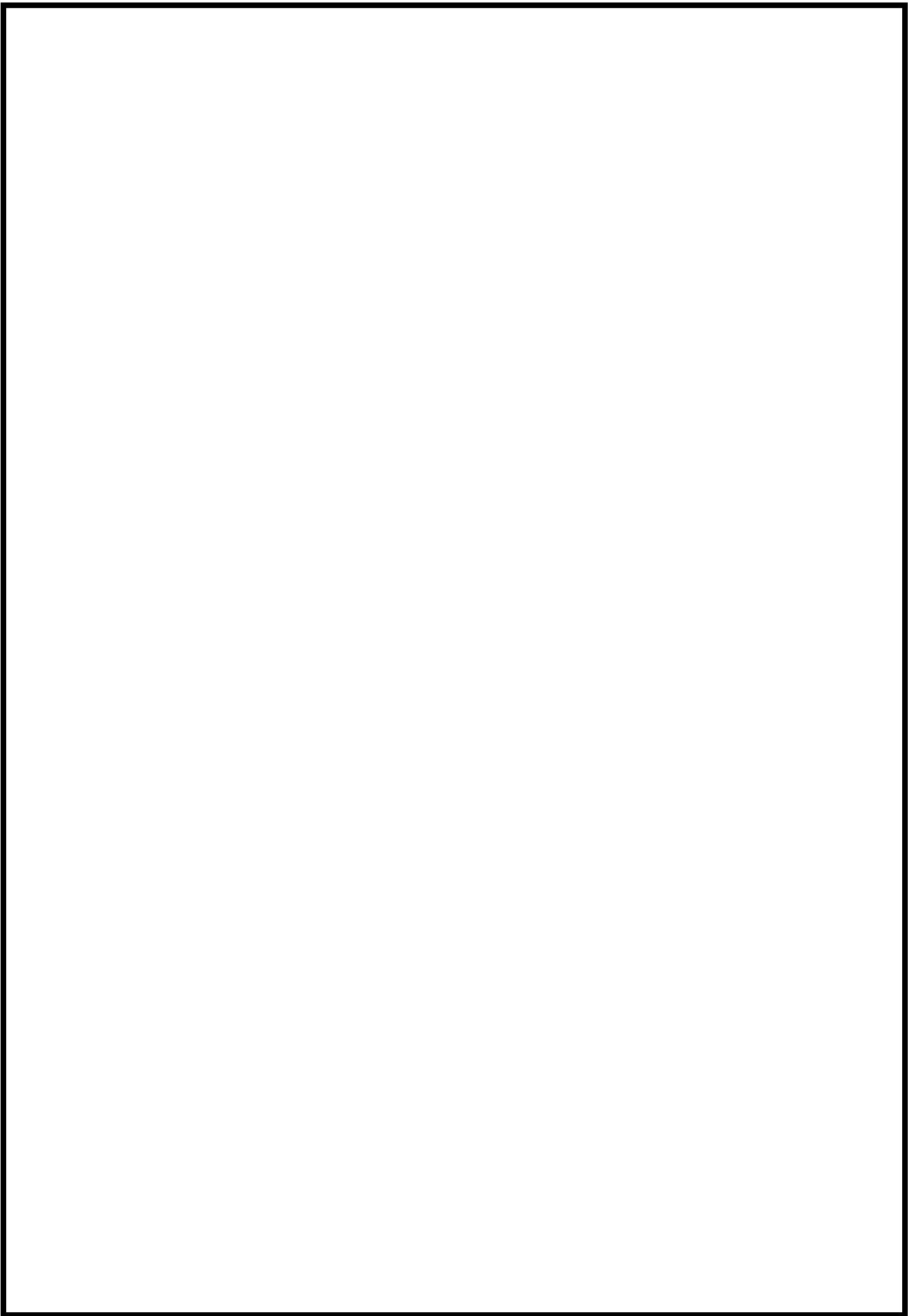
Schedule Change Request for June 27

15\_FYIT\_ABHAY <abaygupta7121@gmail.com> 23:35 (0 minutes ago)

to me

Good afternoon everyone,  
I need to be out of the station on Tuesday, March 12, but I'm still looking for someone to cover my shift that day. If you're interested in swapping shifts with me, please give me a call or email me back and we'll work something out.

Thanks,  
Jeff



Name :- Abhay Gupta

Subject:- IT-Tools

Class :- FYIT/A

Roll No :- 15

## 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 these 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.

Name :- Abhay Gupta

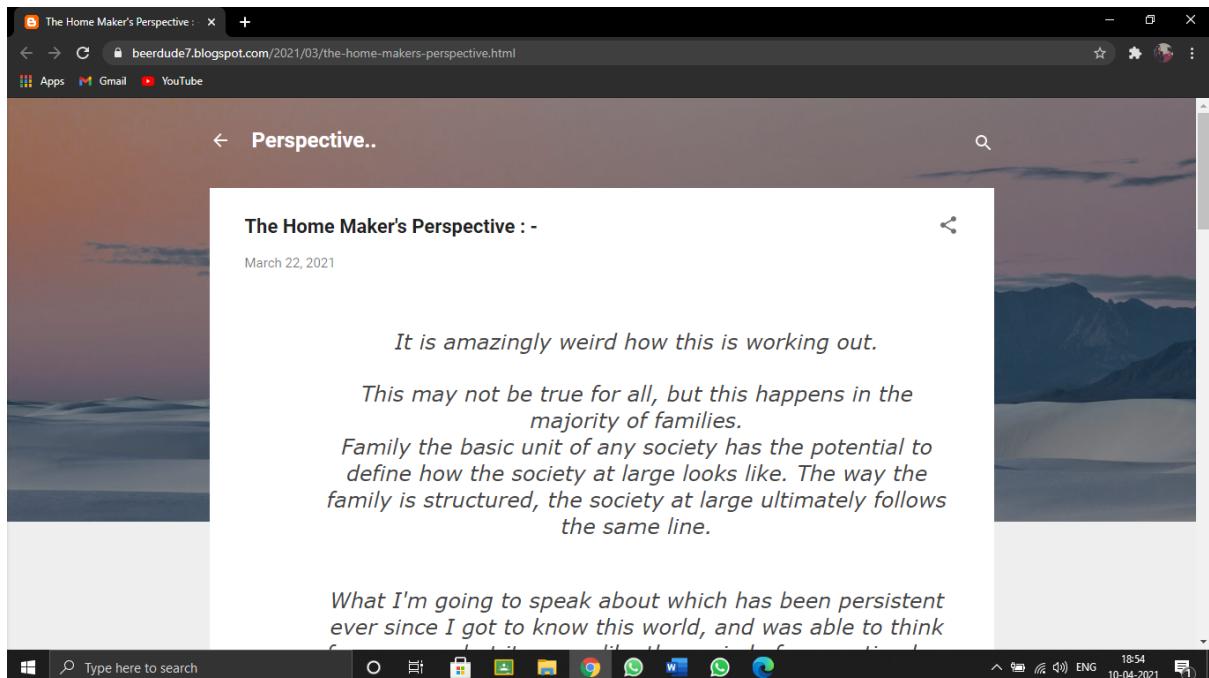
Subject:- IT-Tools

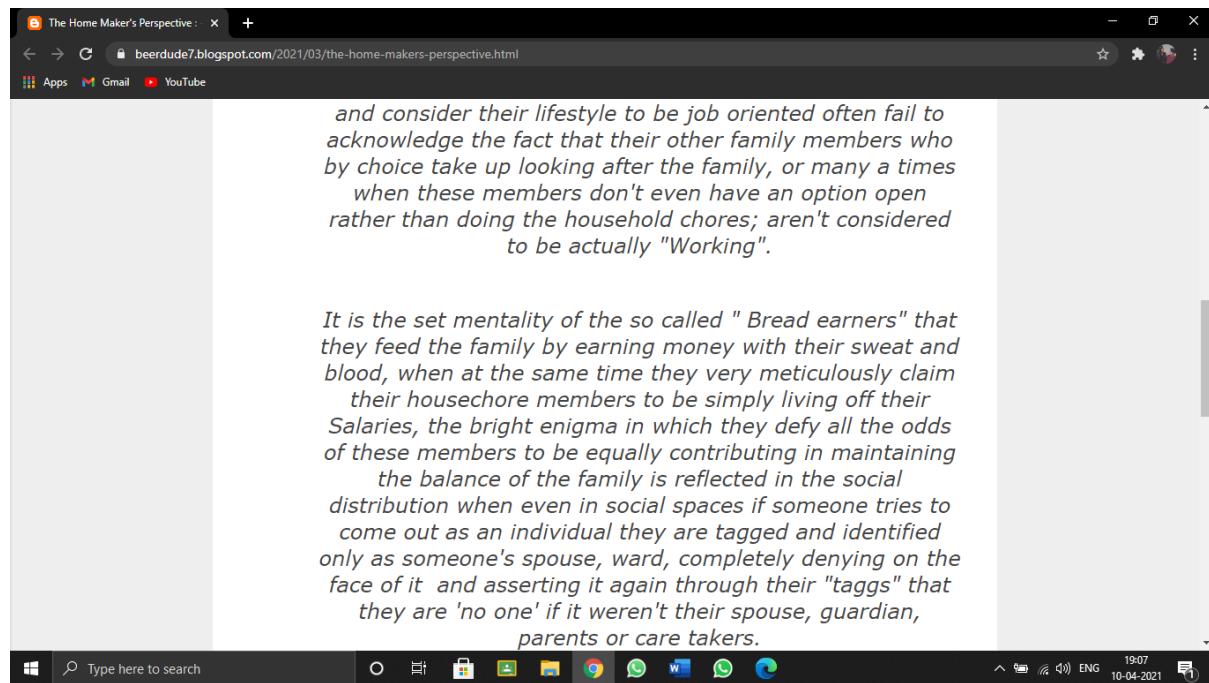
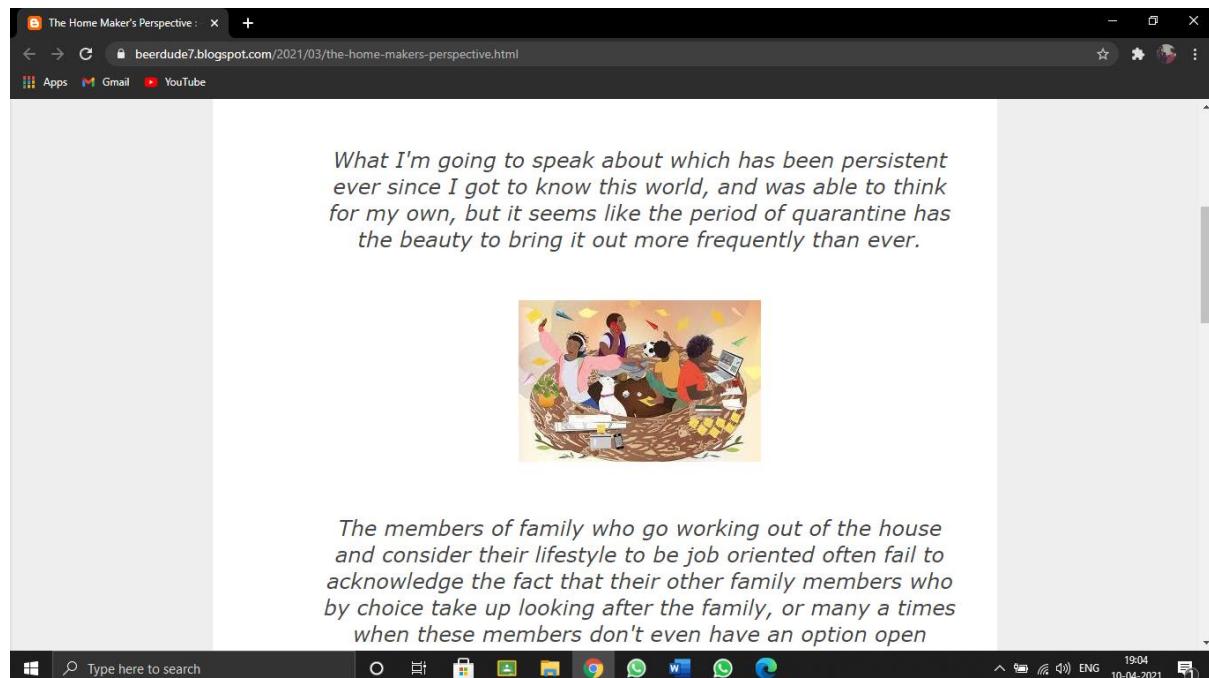
Class :- FYIT/A

Roll No :- 15

# PRACTICAL: - 5

## WRITING BLOGS





The Home Maker's Perspective : +

beerdude7.blogspot.com/2021/03/the-home-makers-perspective.html

Apps Gmail YouTube



These people, the money earners find the house hold work to be useless and not worth any movement of their limb, forget about breaking any sweat for it.

*It is very Ironical that when the entire house is in a mess and their own family member is breaking its back putting the house in order they are brave enough to put on their call and speak to their like minded friend that, "this quarantine will drive me crazy, I've got nothing to do, can't even talk to my neighbors. I wish I could go for a walk at any place to just relax and calm down.... "*

Type here to search

O ⏴ Apps Google Chrome WhatsApp Microsoft Word Microsoft Edge

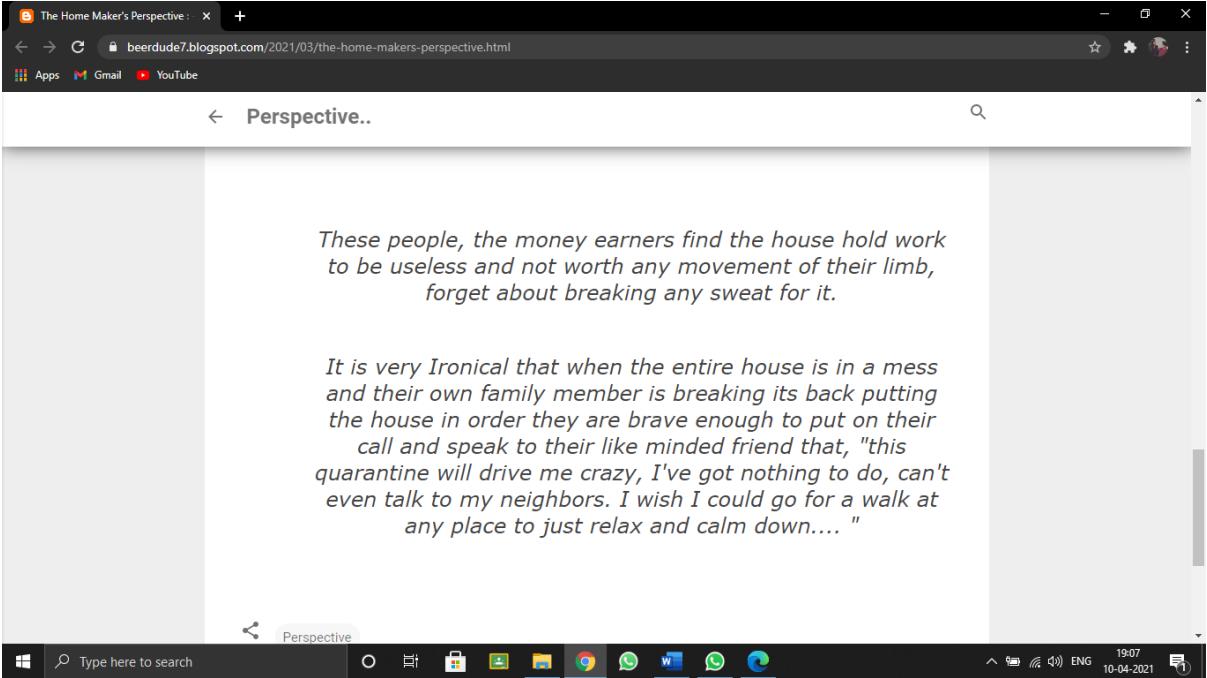
19:07 ENG 10-04-2021

The Home Maker's Perspective : +

beerdude7.blogspot.com/2021/03/the-home-makers-perspective.html

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Perspective..



These people, the money earners find the house hold work to be useless and not worth any movement of their limb, forget about breaking any sweat for it.

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Type here to search

O ⏴ Apps Google Chrome WhatsApp Microsoft Word Microsoft Edge

19:07 ENG 10-04-2021

**Name :- Abhay Gupta**

**Subject:- IT-Tools**

**Class :- FYIT/A**

**Roll No :- 15**

## **PRACTICAL:- 7**

**Implementing coding practices in Python using PEP8.**

# Code :-

```
Arithematic.py - C:/Users/HP/Arithematic.py (3.8.7)
File Edit Format Run Options Window Help
class Arithmetic:
    def accept(self):
        print("Enter two numbers")
        self.a=int(input())
        self.b=int(input())

    def sum(self):
        x=self.a+self.b
        print("sum is",x)
    def sub(self):
        y=self.a-self.b
        print("Subtraction is",y)
    def multi(self):
        z=self.a*self.b
        print("Multiplication is",z)
    def div(self):
        p=self.a/self.b
        print("Division is",p)
    def join(self):
        q=str(self.a)+str(self.b)
        print("Concatination is",q)

al=Arithmetic()
al.accept()
al.sum()
al.sub()
al.multi()
al.div()
al.join()
```

# Output :-



IDLE Shell 3.8.7

```
File Edit Shell Debug Options Window Help
Python 3.8.7 (tags/v3.8.7:6503f05, Dec
Type "help", "copyright", "credits" or
>>>
=====
RESTART: C:/Use
Enter two numbers
7
8
sum is 15
Subtraction is -1
Multiplication is 56
Division is 0.875
Concatination is 78
>>> |
```

# 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

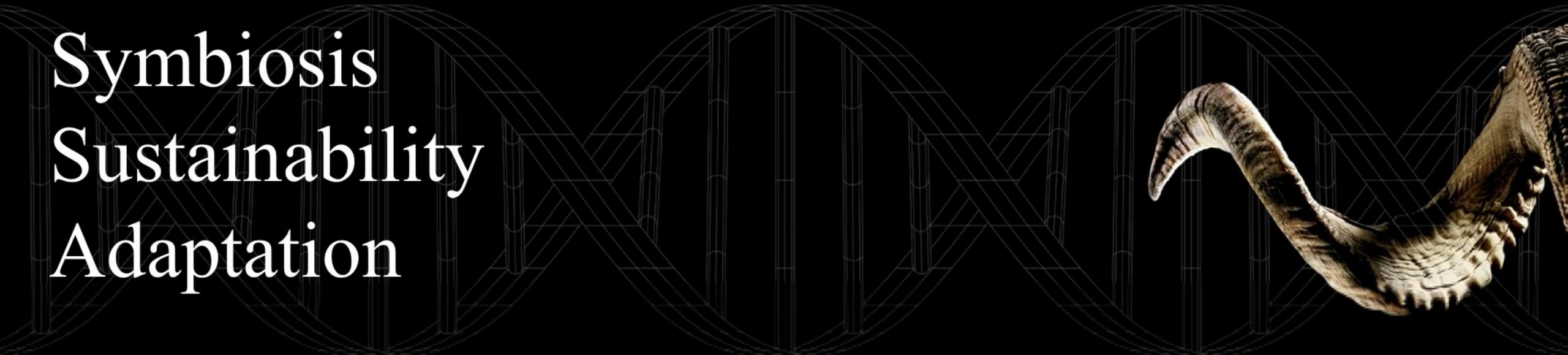
UNLIMITED

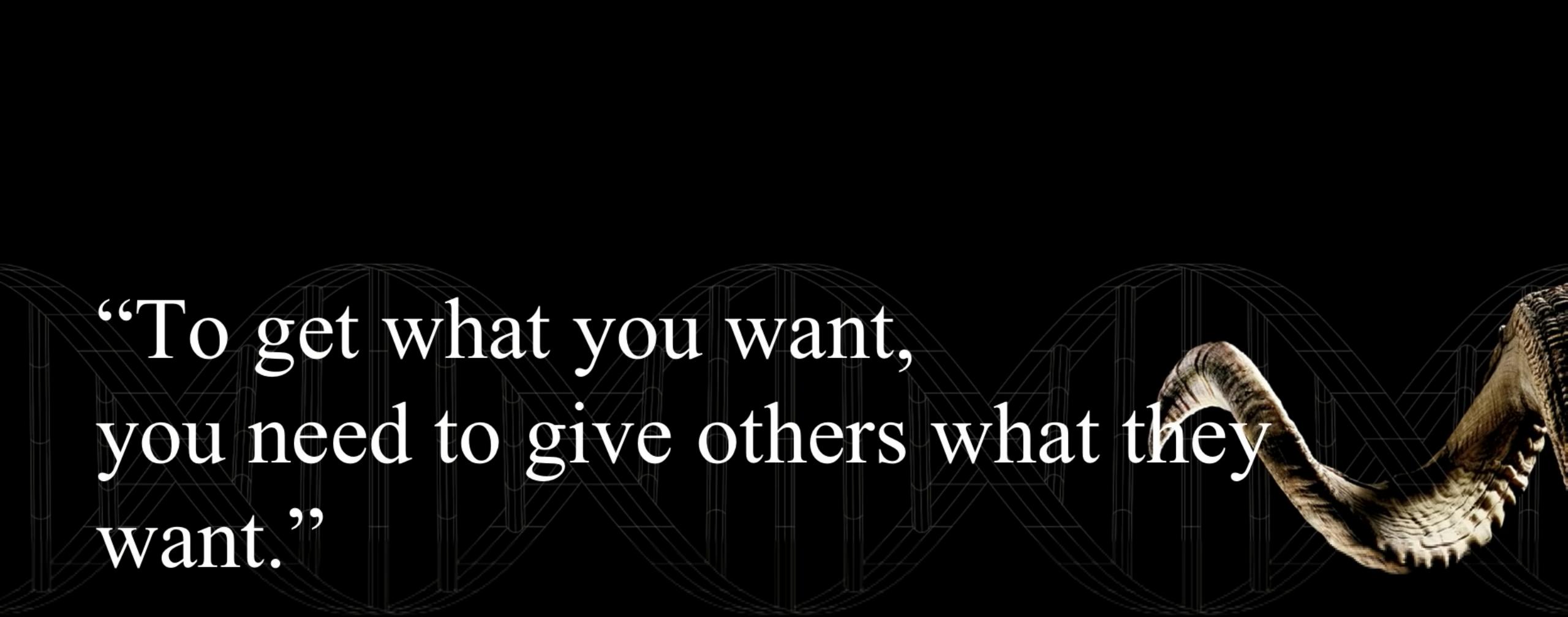
# 3 NATURAL LAWS:

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

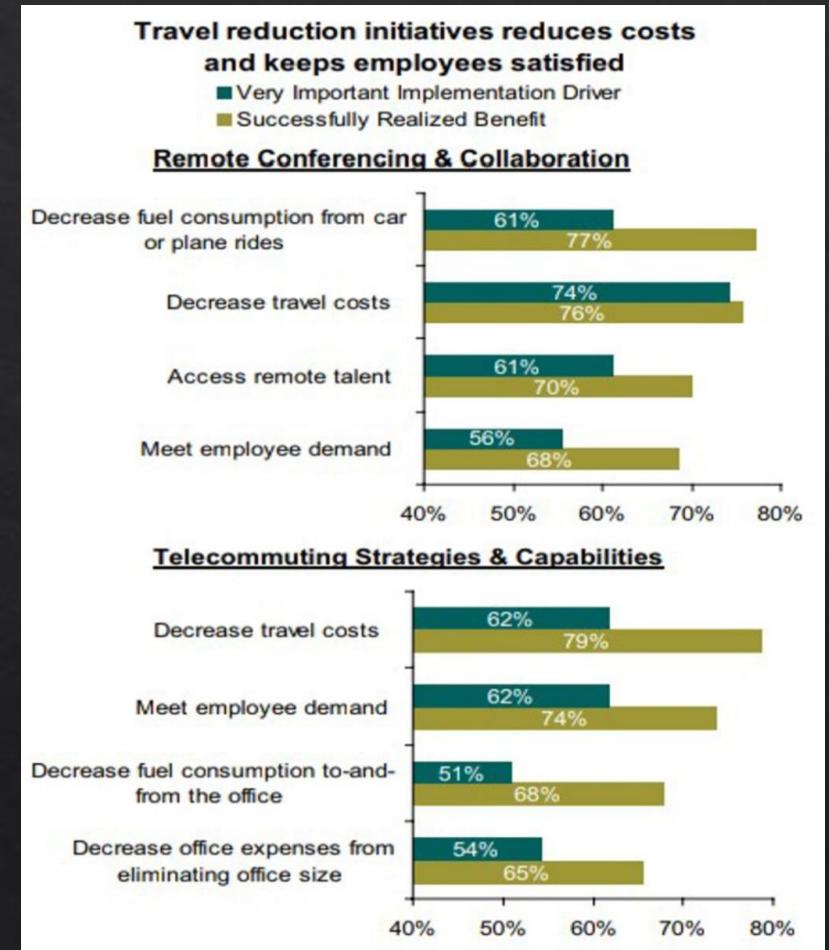
Standard :- FYIT(Sem-2)

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