



**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.\_\_\_\_BHAVESH KUMHAR**

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**Roll No: 126                      Programme: BSc IT/CS                      Semester: II**

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

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

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**External Examiner**

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

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



Sr. No.	DATE	TITLE	SIGN
1.	02/02/21	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.	09/02/21	Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.	16/02/21	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.	23/02/21	WRITING EMAIL	
5.	25/02/21	Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.	02/03/21	WRITING BLOGS	
7.	09/03/21	Implementing coding practices in Python using PEP8.	
8.	25/03/21	PRESENTATION: ____Carbon footprint in Green Computing _____	

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**ROLL NO- 126**

**CLASS – FYIT**

## **PRACTICAL NO 1- INTRODUCTION AND CONTRIBUTION TO WIKIPEDIA**

### **a) Description about Wikipedia and its features.**

#### **• OVERVIEW**

Wikipedia's articles allow the user to use links that are related to the pages for additional information.

It allows you to edit articles for free.

It allows you to put your own article on the site.

Wikipedia has 270 languages.

Wikipedia was founded by Nupedia to produce a free encyclopedia.

. Quick Information

Wikipedia is a free encyclopedia service available over the internet.

Depending on the topic, wiki's information can be general or very detailed.

Wikipedia appeals to many different types of people. Even though most teachers frown upon it, wiki is used as a starting point for many students when doing a project or presentation.

#### **• FEATURES AND BENEFITS**

Wikipedia's most known and controversial feature is its editing tool.

You must be a registered user of the site to make changes to any articles.

The editing model is only available in the English edition.

Free editing can be very helpful to the sites users.

If a fact is incorrect it can be changed within seconds by one of Wikis register users.

This can also create issues, because anyone can edit the site can tend to have some news posted that is not fact based.

### **Wikipedia Features**

- Wikipedia has many features for the users on the web. Wiki provides pieces of answers from different resources, to help the user see it from different perspectives. If someone doesn't understand what one editor says, there're always a few more editors with the same answer but with a different response.
- **More Features...**
  - Users around the world are able to add or delete an answer to make the best response. Wiki added a new feature called vector, which is stylish tabs at the top of each page telling the user whether they're viewing a document or a discussion page.
  - This feature also reminds them if they're reading or editing an entry. Wikipedia is a community effort to create the best answers possible; there are different viewpoints for the user to read.
- **Supported Applications**

Many applications are necessary in order for Wikipedia to function properly. Javascript must be installed on your computer during your research process for the language to be visible and understandable to the reader. How Wikipedia is Used Wikipedia can be used in various ways. Companies such as Red Ant, Sydney, Australia based web design and

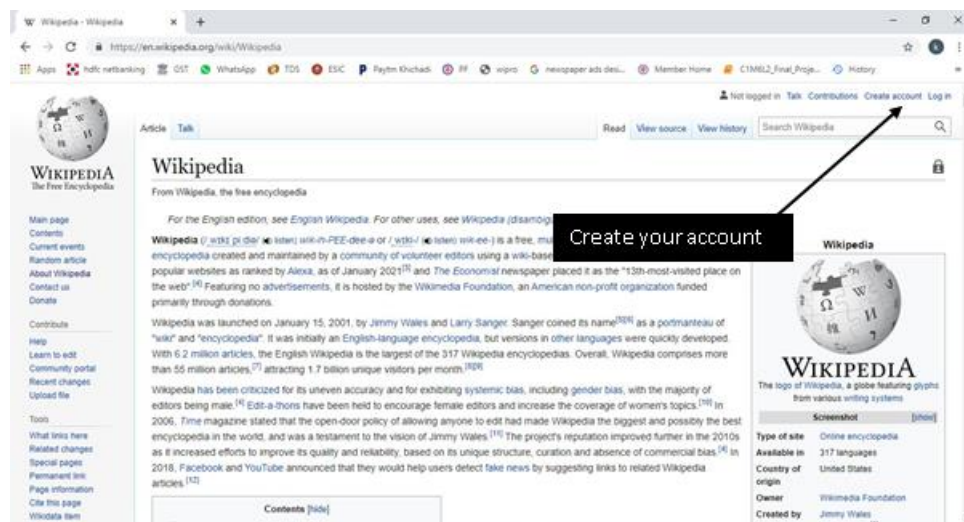
development firm, and Sun Microsystems all benefit from using Wikipedia. Wikipedia is used as a focal point of the web for employees and customers. Employees use Wikipedia to attach files, update web pages and integrate information for their job.

- **Where Can It Be Purchased**

Wikipedia is a free online encyclopedia directed more towards the younger generation. Anyone can easily access wikipedia by logging on to <http://www.wikipedia.org/>  
Recommended **Explore professional development books with Scribd** Explore professional development books with Scribd Scribd - Free 30 day trial Wiki powerpoint Wiki powerpoint Penfield Central Schools Wikipedia Wikipedia bookbird Wikipedia Wikipedia ger1989 Wikipedia Wikipedia Laura Wilson Wikipedia Wikipedia rene1517 Wiki ppt Wiki ppt donald.smith KNVI-IP inspiratiemiddag over Wikipedia - presentatie Richard Rogers KNVI-IP inspiratiemiddag over Wikipedia - presentatie Richard Rogers marjobakker Encyclopedias Encyclopedias soher hassan Slowing Growth of Wikipedia and Models of its Dynamic (Presented at Wikimedia Foundataion and WikiSym 2009) Slowing Growth of Wikipedia and Models of its Dynamic (Presented at Wikimedia... Ed Chi Editing Wikipedia Editing Wikipedia Kathy Gill

## b) Creating Account on Wikipedia

STEP 1: Click on Create account button to create your account

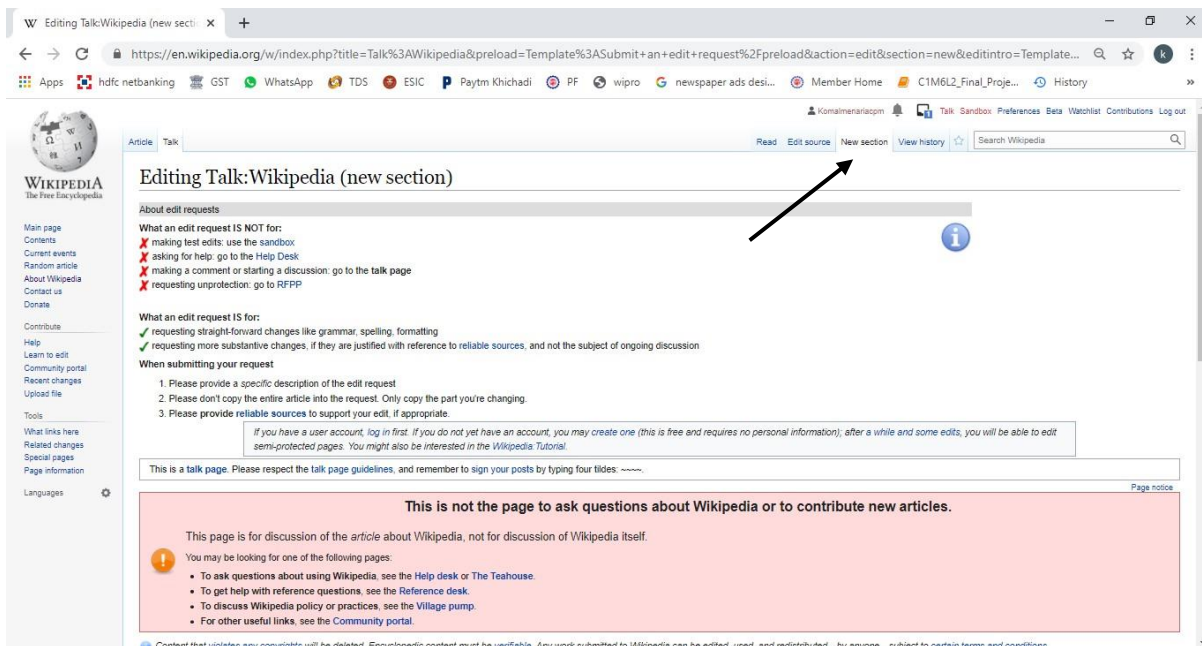


STEP 2 : Fill all the information carefully and after that click on the Create your account button to create account

## c) Creating your page on Wikipedia

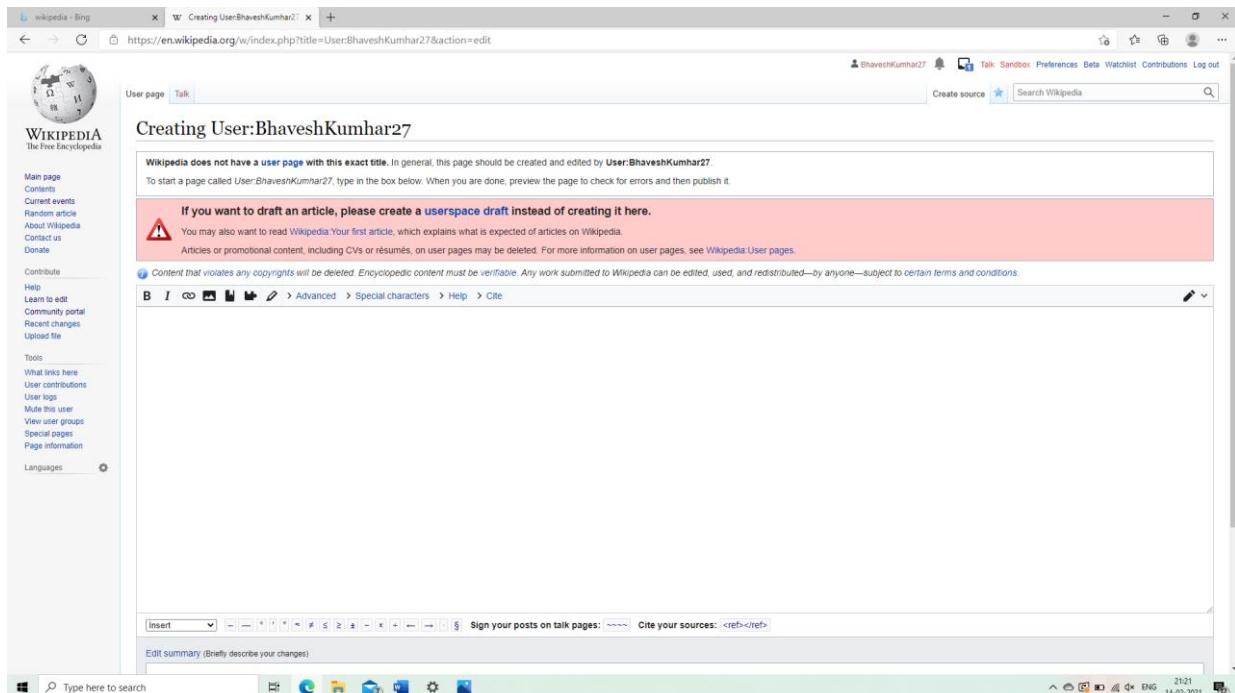
STEP 1 : click on the view source button then you will reach on this page then click on submit an edit request button.

## STEP 2: Click on New section to create your page

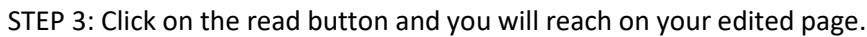


## d) Editing your page on Wikipedia

STEP 1: Click on Create source button and after that click on User page then you will reach on your page. Here you can Edit your page



STEP 2: Here you can fill necessary information and at the end click on Publish changes button to Publish your page information







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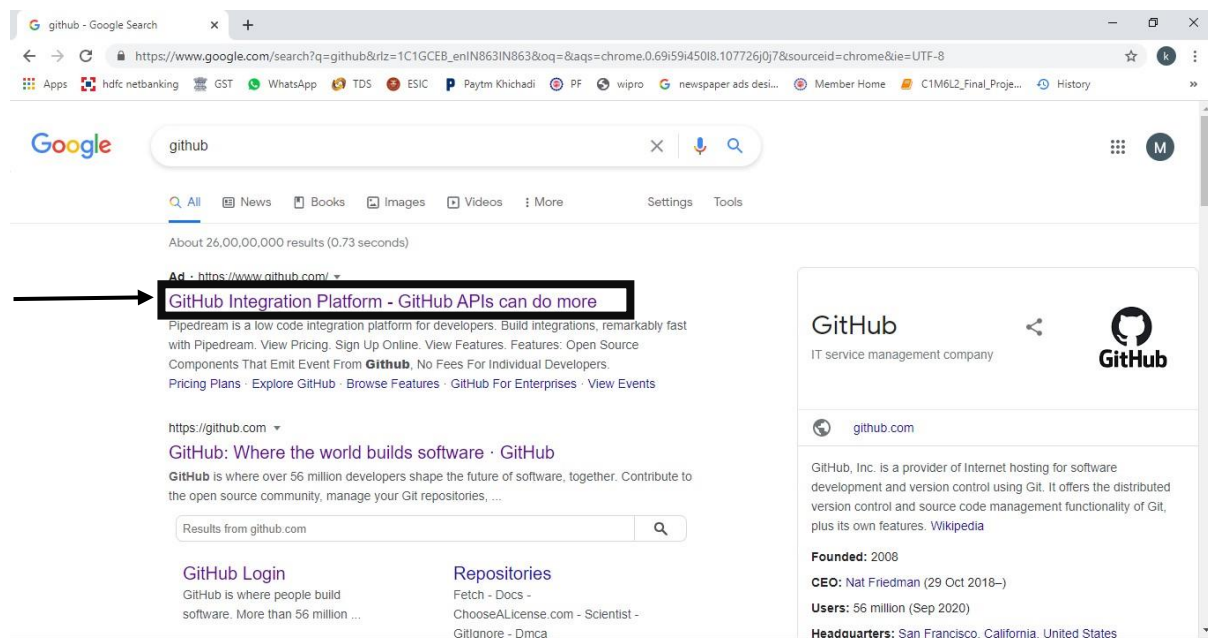
ROLL NO – 126

CLASS – FYIT

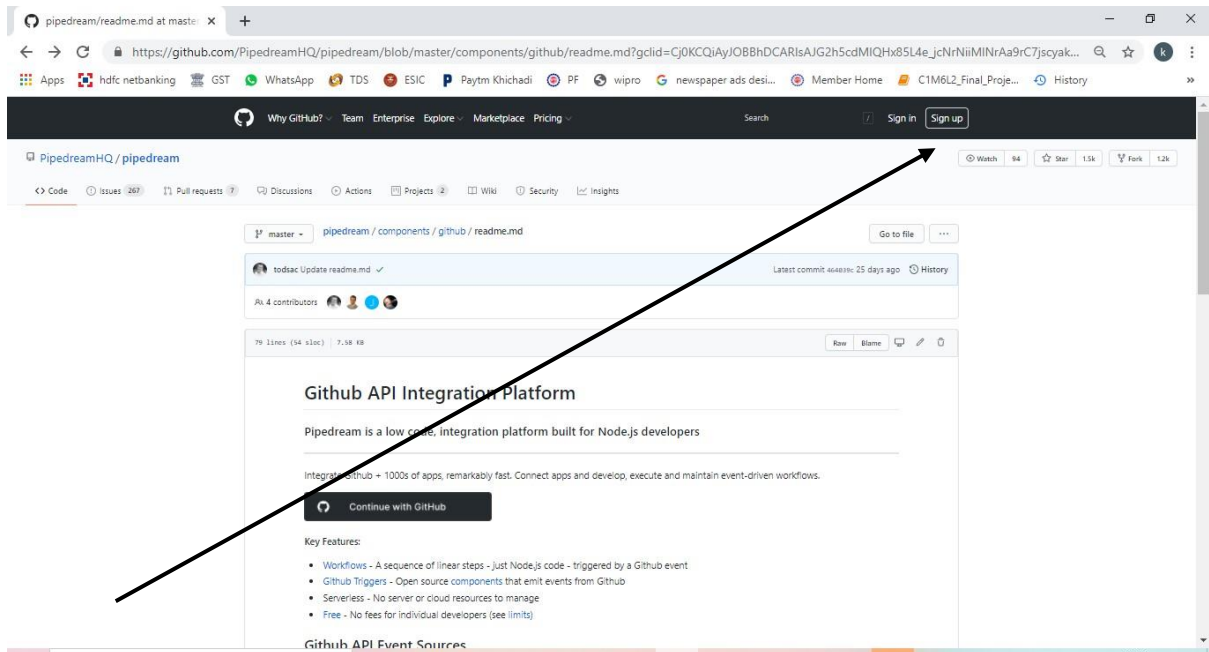
## PRACTICAL 2: Creating account, repository on Github s and cloning repository in Github

### a) Creating account: -

**Step1: - Search Github on Google and click on the official link of Github.**



**Step 2: Click on the sign up button to create an account on Github.**



**Step 3: When you click on the signup button you will reach on this page**

**here you have to fill all necessary information which is star marked.**

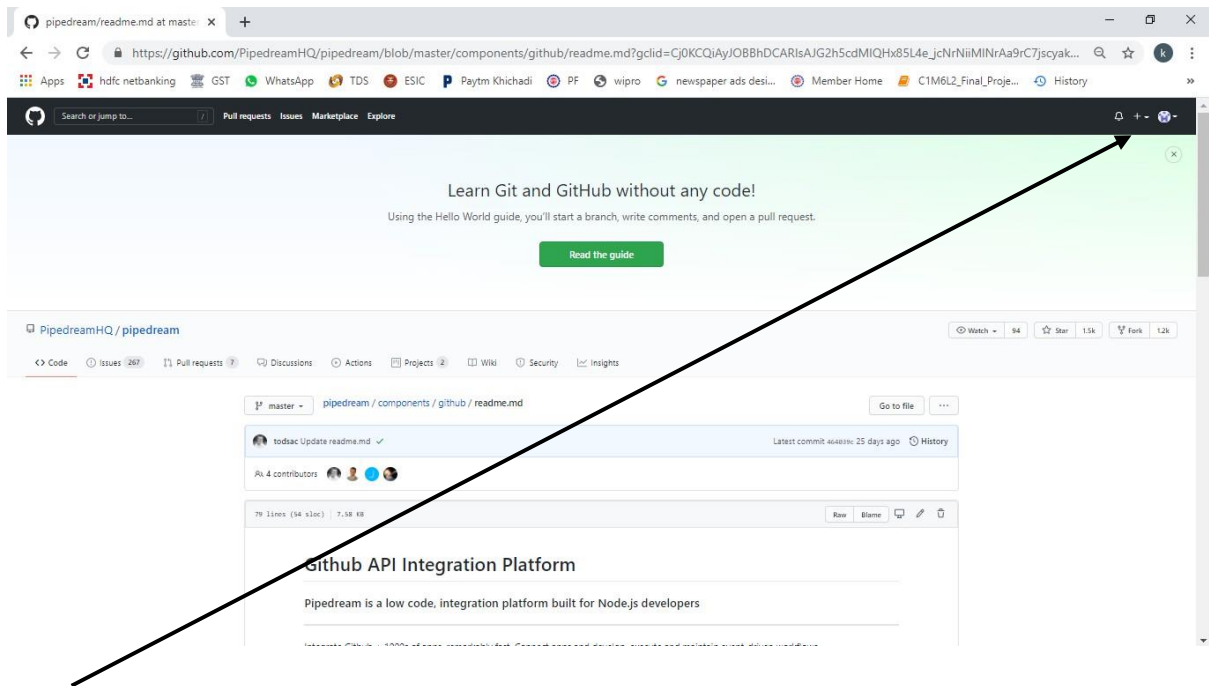
The screenshot shows the GitHub 'Create your account' page. The form includes fields for Username, Email address, and Password, each with an asterisk indicating it is required. Below the Password field is a checkbox for 'Send me occasional product updates, announcements, and offers.' and a 'Verify your account' section with a 'Verify' button. At the bottom is a blue 'Create account' button. Annotations on the right side of the page use arrows to point to these elements:

- INSERT YOUR NAME** points to the Username field.
- INSERT YOUR EMAIL ID** points to the Email address field.
- INSERT PASSWORD** points to the Password field.
- VERIFY YOUR ACCOUNT** points to the Verify button.
- CLICK ON THE CREATE ACCOUNT** points to the Create account button.

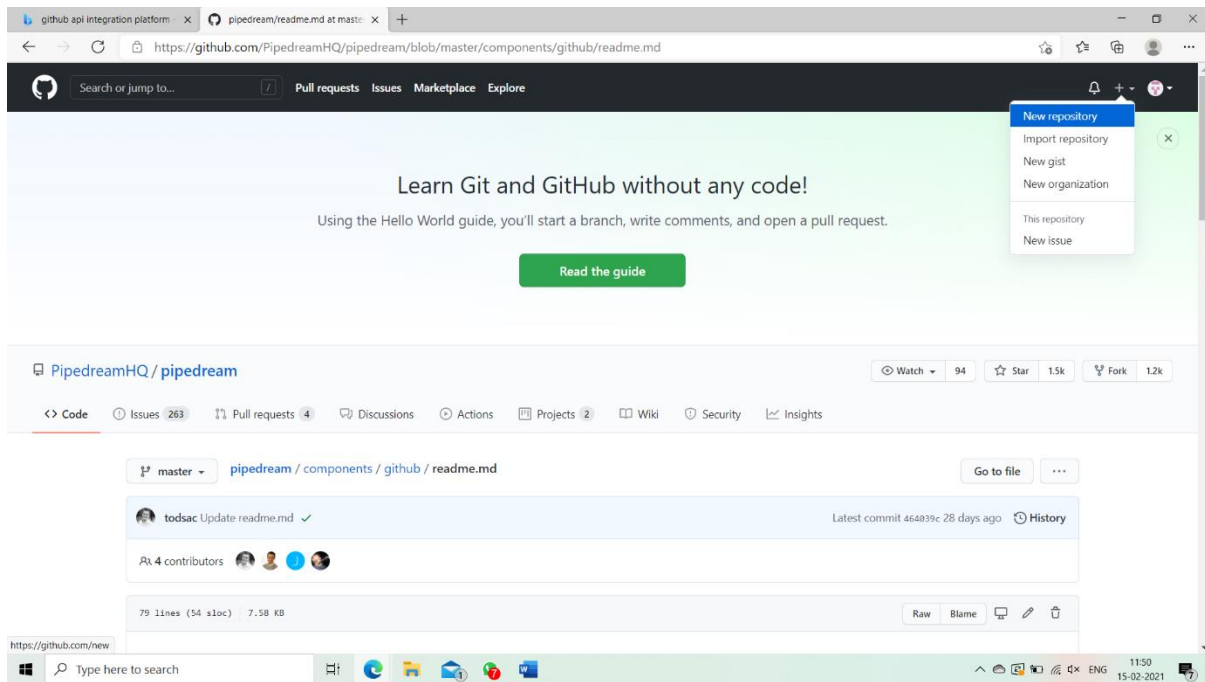
**Step 4: After fill all the information verify your account and click on the Create Account button. Now your account is created.**

## a) Creating repository:

**Step 1: To create repository click on the + button**



**Step 2: Click on New repository to make your repository.**

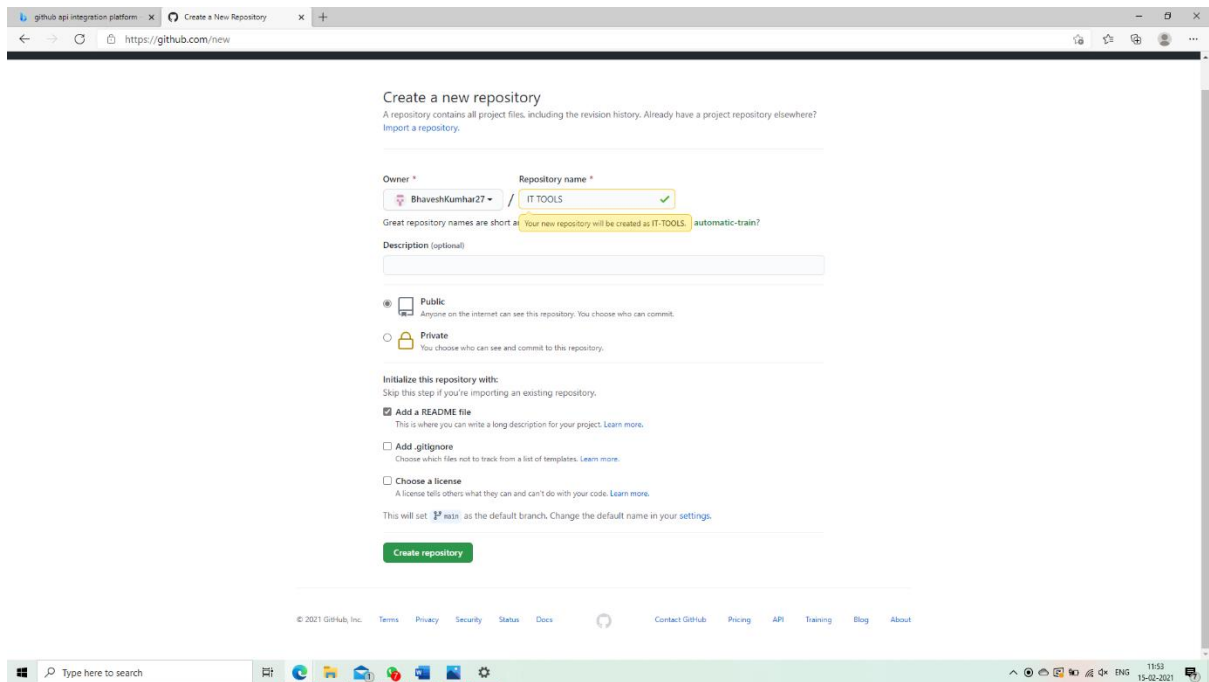


**Step 3: After clicking on the New repository you reach on this page here you have to give your Repository name, click on the private or public button.**

**Description: It is optional, so if you want to describe something about your repository then fill the description field with necessary information**

**1 Private: If you want no one can access your repository then click on private button.**

**2 Public: If you want other people can access your repository then click on public button.**

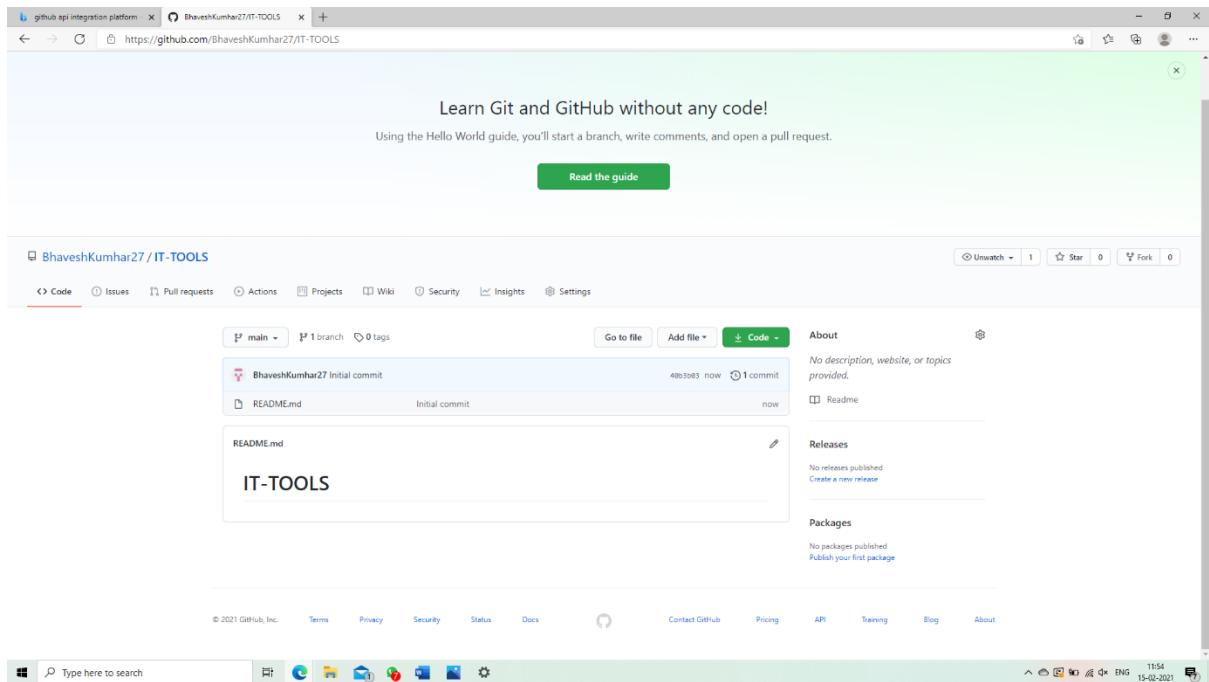


**Step 4: In the last click on the create repository button.**

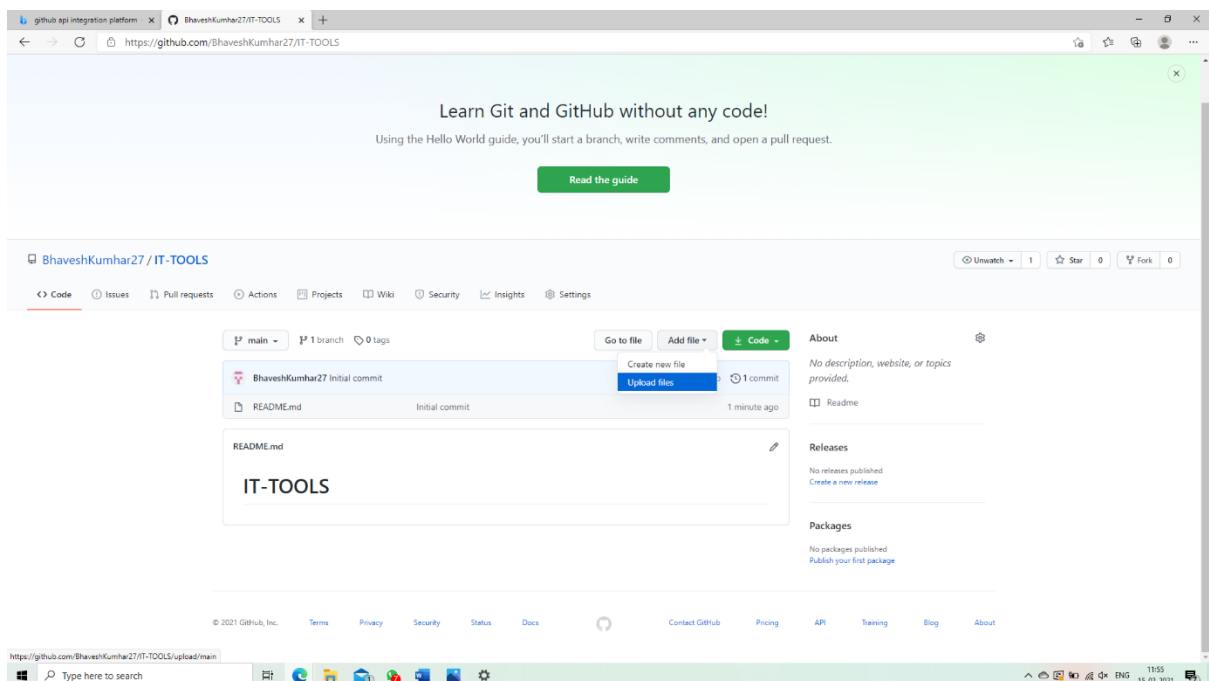
## **B) Cloning repository:**

**After clicking on the create repository button you will reach on this page Step 1: Click on the Add file button .**

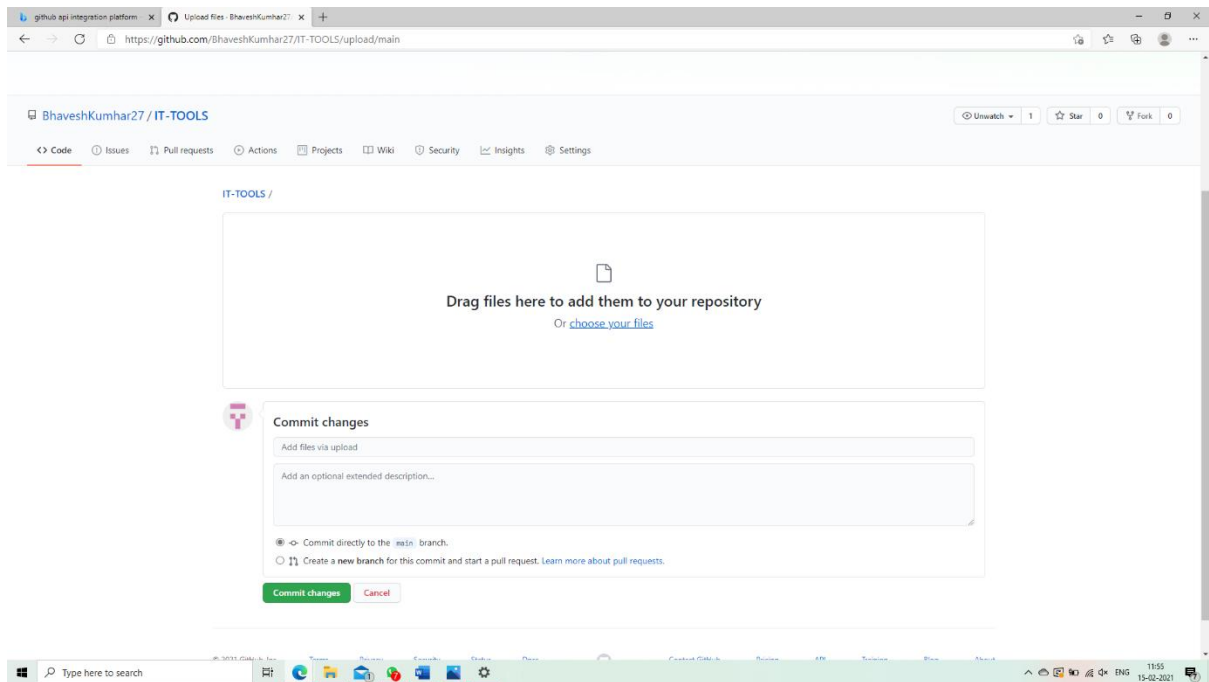




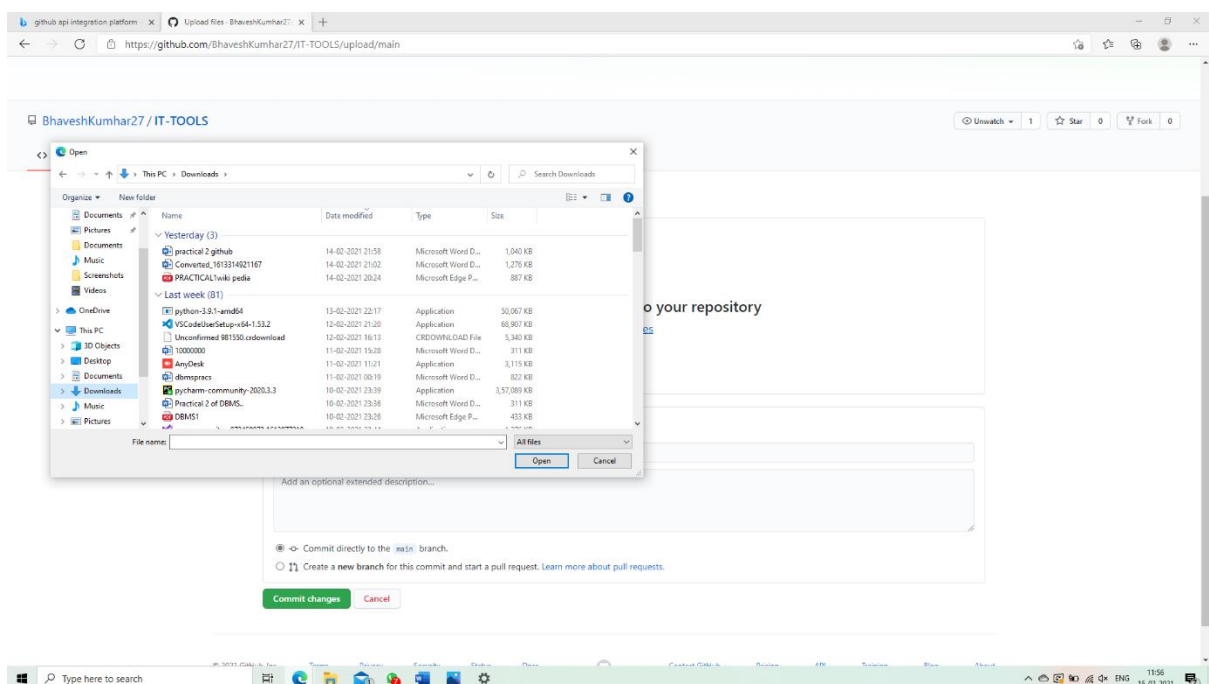
**Step 2 click on upload files here you can add any no of file in the repository.**



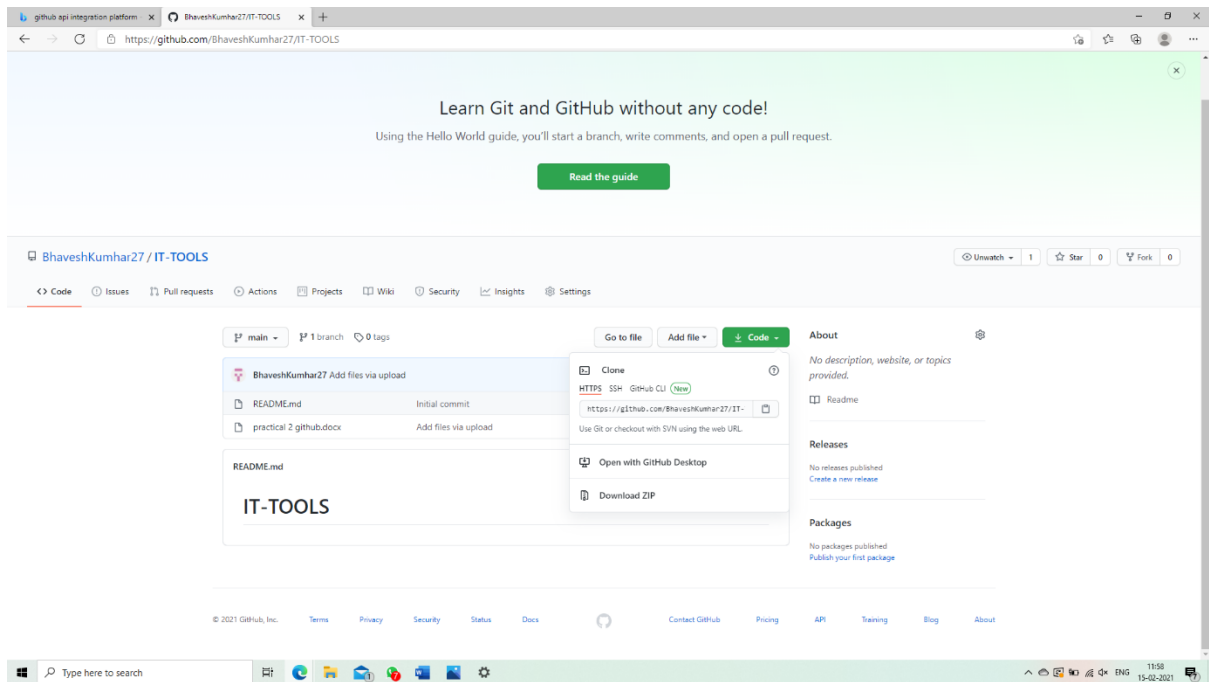
**Step 3: Click on choose your files to select your file**



**Step 4: Select the file which you want and click on open button and atleast click on the commit changes button to save the changes**



**Step 4: click on the code button to get your repository link and copy the link To share your repository**





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**CLASS- FYIT**  
**ROLL NO -126**

### **Practical 3**

#### **Basic understanding on free and open source software**

##### **1) Open source software:**

The term open source means something that people can modify and share because which is publicly accessible.

##### **What is open source software?**

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 control how a program or application behaves. Programmers also have access to source code and can change a program by adding to it, changing it, or fixing part of it which is not working properly. Open source software typically includes a license that allows programmers to modify the software to best fit their needs and control how the software can be distributed.

##### **Examples of Open Source Software are given below:**

1. Android
2. Linux
3. Mozilla Firefox
4. VLC media
5. Apache web server
6. jQuery

##### **Is Open source software free?**

Open source software does not necessarily mean that executable software is given away for free. It means that its source code is available for free.

## 2) Free software:

Free software means software that respects users freedom and community.

Roughly it means that the user have the freedom to run, copy, distribute, study, change and improve the software. Thus, free software is a matter of liberty not price.

Although the term free software had already been used loosely in the past, Richard Stallman is credited with time it to the sense and the discussion and starting the free software movement in 1983. For software under the pure view of copyright to be free it must be carry software licence whereby author grant users the aforementioned rights.

**Example of free software are given below:**

1. Linux kernel
2. BSD
3. C library
4. MySQL
5. Sendmail transport agent, etc

## 3) Difference between Open Source and Free Software:

<b>Free software</b>	<b><u>Open source software</u></b>
Software is an important part of people's lives	Software is just software. There are no ethics associated directly to it.
Software freedom translates to <u>social</u> freedom	Ethics are to be associated to the people not to the software
Freedom is a value that is more important than any <u>economical</u> advantage	Freedom is not an absolute concept. Freedom should be allowed, not imposed.
<b>Example:</b> Linux kernel, BSD and Linux operating system, <u>C library</u> , MySQL etc.	<b>Example:</b> Apache HTTP server, Mozilla Firefox, LibreOffice etc.

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**PRACTICAL NO – 4**


**(WRITING EMAIL)**


Format

Insert

Draw

Options


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**B**


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**A**

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Heading 1

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 Undo

 Redo

From: kumarbhavesh681@gmail.com 

To: [sweetty@nkc.ac.in](mailto:sweetty@nkc.ac.in);  Cc & Bcc

Excuse from IT Tools Practical Dated 25.02.2021

Respected Madam/Sir  
Good Morning  
I, Bhavesh Kumhar , student of FYIT Roll No -126 is writing this email to you in concern with my missing submission of IT Tools Assignment no 3 as I was admitted in hospital from 18.02.2021 till 25.02.2021.

I request you kindly allow me to submit the same by Sunday 28.02.2021.

Looking forward for your positive response.

Encl: My Reports

Regards  
Bhavesh Kumhar  
FYIT - 126

Sent from [Mail](#) for Windows 10

### Practical – 5

*1: 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 environment so make sure you dispose of old components effectively. Don't just throw broken technology in the bin, take the time to trace local recycling organizations. There should be companies which can remove the metals which may fix or furnish items. you should check with your local authorities to find out what facilities they offer for safe disposal of old computing parts.*

## Practical – 6

### BLOG PRESENTATION

#### < 3 Best Places To Do Parasailing In India

##### 3 Best Places To Do Parasailing In India

March 29, 2021

Where is the Best place to do parasailing in India?

Parasailing is one of the best water sports activities, which is popular and tourist's main attractions. Where a person or tourist can fly in the sky like a bird, with the help of a kite-like structure parachute.

Feel like a bird, Fly high in the sky in the air with PACE TOUR PACKAGE And create memories. Sense safe as our safety and sanitization standards meet all the general standards. All types of equipment and security gear are thoroughly checked and sanitized after every trip.

The following are the best 3 places for parasailing in India.

#### 3 Best Places To Do Parasailing In India

##### 1.Parasailing in Goa.



Goa is not just famous for beaches but also famous for many water activities and waterfalls, etc. Goa attracts many tourists for scuba diving, river rafting, etc. Mostly All beaches provide parasailing to tourists. The best time to visit Goa and enjoy parasailing in goa is from November to February.

Most Appropriate place for parasailing in Goa-Arjuna Beach, Calva Beach, Baga Beach, Dana Paula Beach, etc.

##### 2.Parasailing in Himachal Pradesh.

Himachal Pradesh has known as a place of hills. Himachal Pradesh is suitable for parasailing for professionals as well as non-professional in India. There are even international parasailing and paragliding competition take place in Himachal Pradesh in India. The best time to visit for parasailing in Himachal Pradesh is from March to October.

Most Appropriate places for parasailing in Himachal Pradesh - Kullu, Manali, Salong Valleys, Bir billing Valley.



##### 3.Parasailing In Rajasthan.

Rajasthan is famous for the historical place . Rajasthan is the most radiant rare one of all the parasailing places in India. Rajasthan Suitable Of the large open landscapes. Where a parachute is pulled by the 4 wheel vehicles and tourists can have bird eyes and enjoy the moments.

The best time to visit for parasailing in Rajasthan from September to February.

Most Appropriate places for parasailing in Rajasthan: Jaipur, Bikaner, Jodhpur, Kota and Jaisalmer, Udaipur.

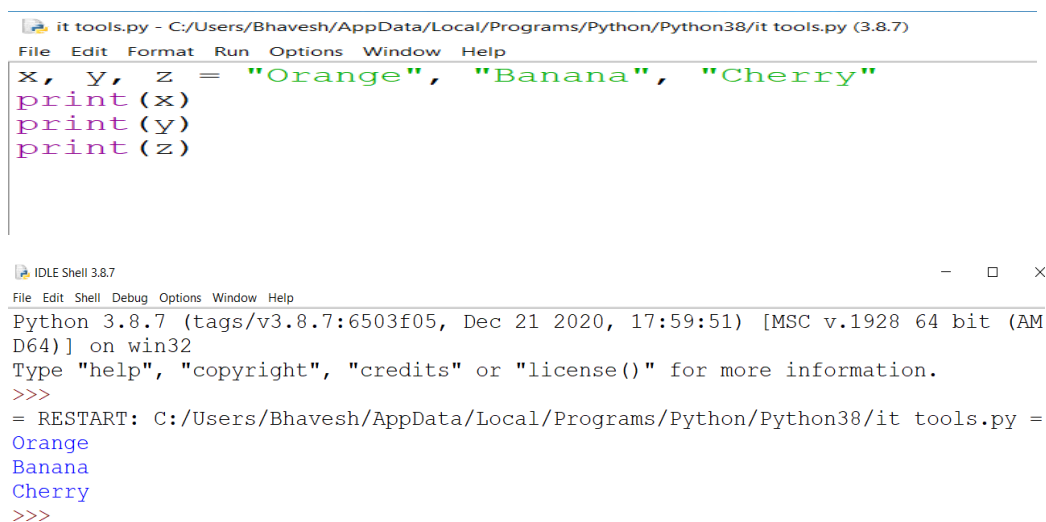


## Practical – 7

1) Implementing coding practices in Python using PEP8.

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

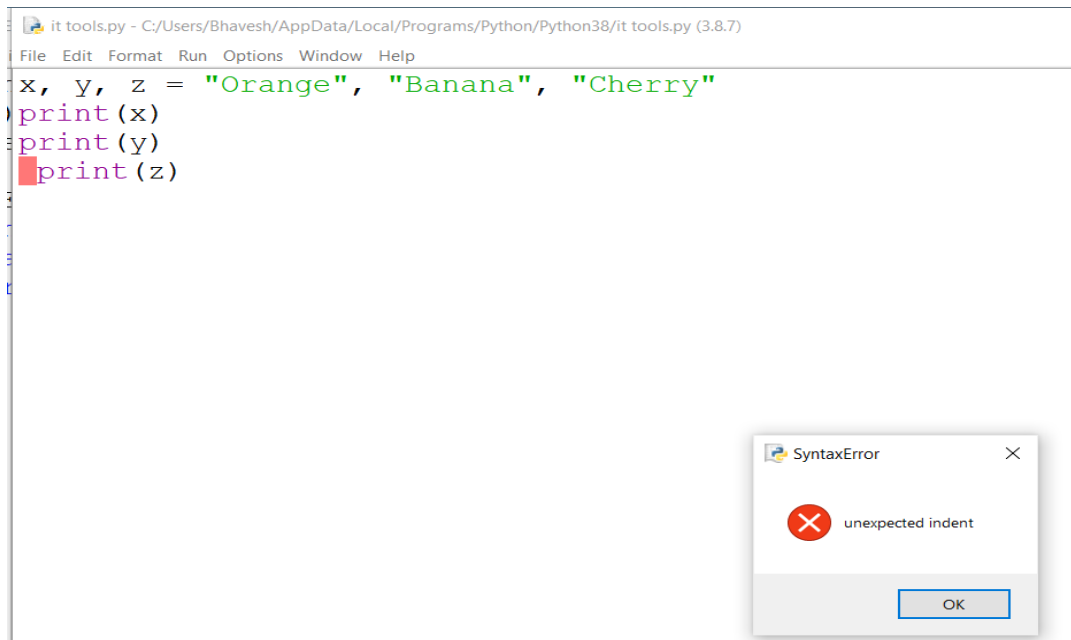
Correct:



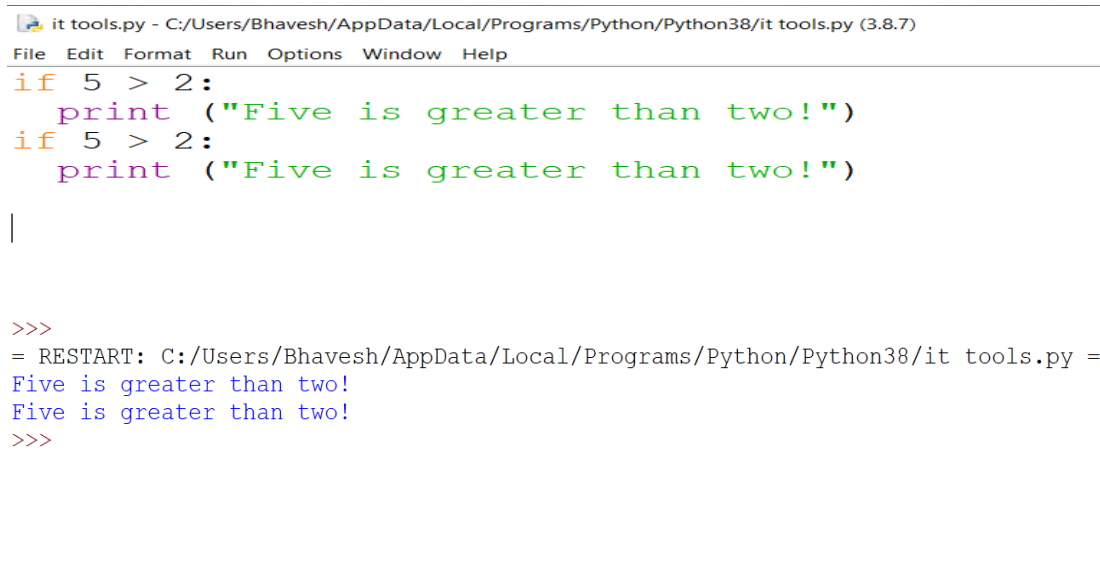
```
it tools.py - C:/Users/Bhavesh/AppData/Local/Programs/Python/Python38/it tools.py (3.8.7)
File Edit Format Run Options Window Help
x, y, z = "Orange", "Banana", "Cherry"
print(x)
print(y)
print(z)
```

```
IDLE Shell 3.8.7
File Edit Shell Debug Options Window Help
Python 3.8.7 (tags/v3.8.7:6503f05, Dec 21 2020, 17:59:51) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Bhavesh/AppData/Local/Programs/Python/Python38/it tools.py =
Orange
Banana
Cherry
>>>
```

Wrong Indent Example:



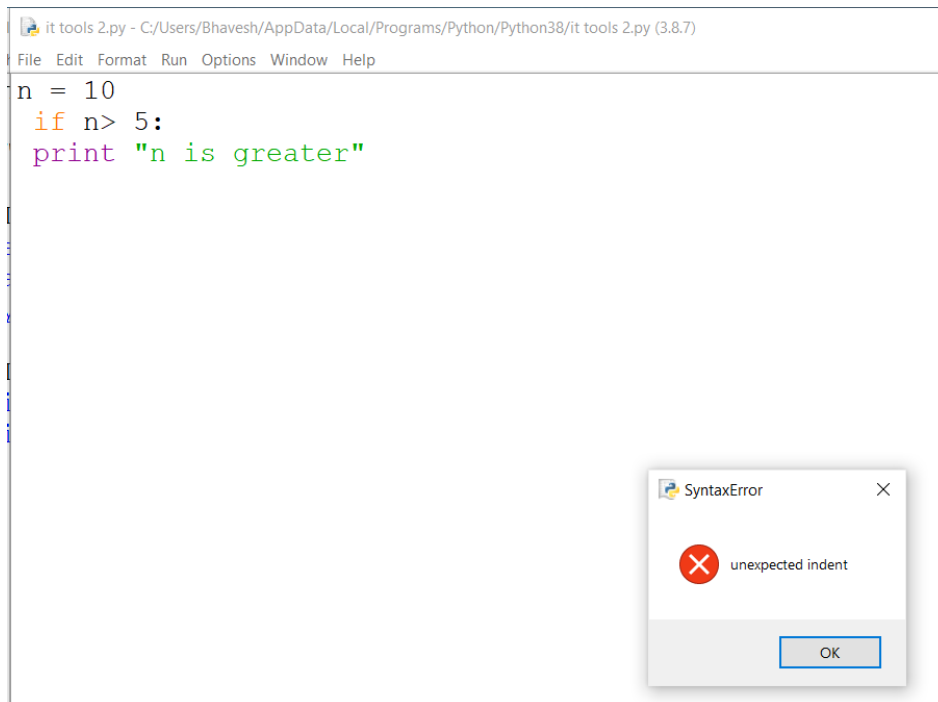
*Python was designed for readability, and has some similarities to the English language with influence from mathematics. Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses.*



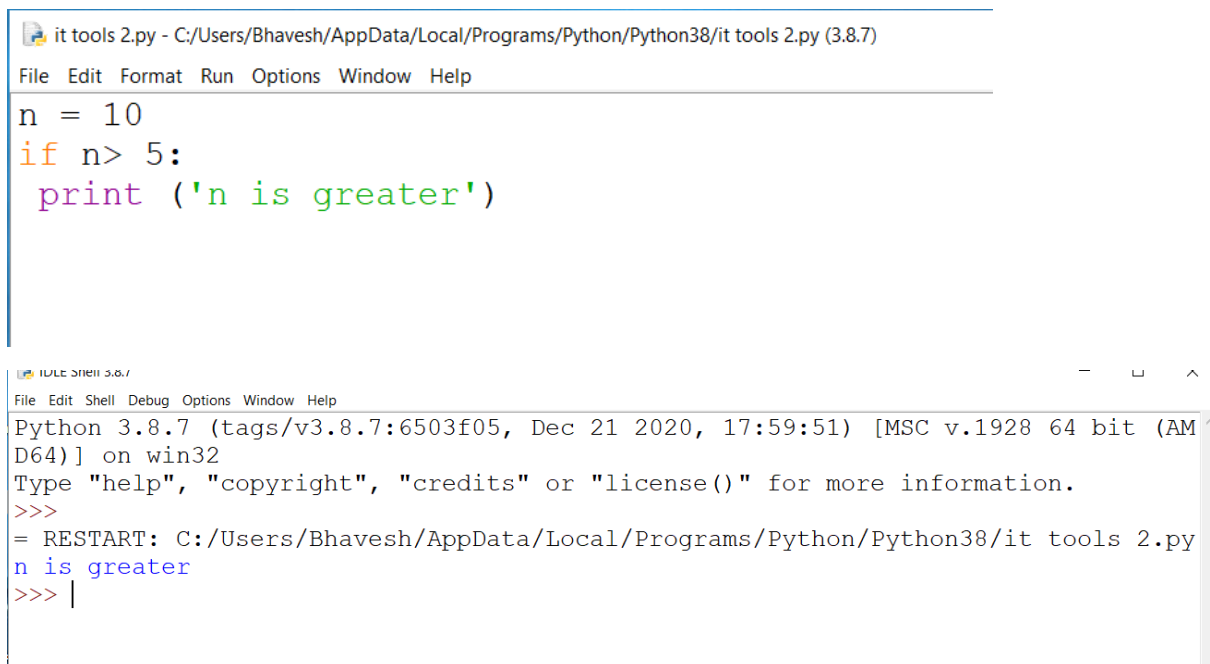
```
>>>
= RESTART: C:/Users/Bhavesh/AppData/Local/Programs/Python/Python38/it tools.py =
Five is greater than two!
Five is greater than two!
>>>
```

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

*Example: - Wrong*



Correct:





# CARBON FOOTPRINTING IN GREEN COMPUTING



*GROUP NO - 9*



# GROUP MEMBERS

*SAMI VORA (100)*

*DHARABEN PATEL (141)*

*GUNJA SINGH (88)*

*BHAVESH KUMHAR (126)*

*MANAV SHETTY (84)*

*RUPAL PATEL (59)*

*DAKSH RAI (123)*

*NIYATI SHAH (77)*

# HISTORY

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



# INTRODUCTION

## **GREEN COMPUTING**

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



## ***CARBON FOOTPRINTING***

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



# TYPES OF GREEN COMPUTING

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





## GOALS OF GREEN COMPUTING

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



## NEED OF GREEN COMPUTING

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





# APPROACHES TO GREEN COMPUTING

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



# ADVANTAGES

*1) Energy Saving*

*2) cost saving*

*3) Recycling Process*

*4) Brand Strengthen*

*5) Less pollution*

*6) GHG Emissions*

*7) chemical exposure*

*8) Green IT implementation*

*9) Saving energy and resources saves money*

*10) Renewable energy*

# DISADVANTAGES

*1) Implementation cost*

*2) Performance*

*3) Maintenance*

*4) Adaptation*

*5) Security leaks*

*6) IT knowledge*

*7) Support system*

*8) Green IT cause more burden to an individual*

*9) Rapid technology Change*

*10) Power Management*

# EXAMPLE

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

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



## METHODS TO CURE CARBON FOOTPRINTING IN GREEN COMPUTING

### *Improving systems' efficiency*

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

### *Using Renewable Energy in IT*

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



## FIVE WAYS TO REDUCE CARBON FOOTPRINT

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



# HOW YOU CAN SUPPORT GREEN COMPUTING

*Energy star labeled products*

*Turn off computer*

*Optimal brightness level*

*Use of IT peripherals*

*Screen Saver*

*Environmental Companies*

*Donate or Recycle*

*Both side printing*



*Sleep mode*

*Power Management*

*Use email*

*Non-petroleum inks*

*Use VoIP technology*

*Replace LCD/CRT to OLED*

*Participate recycling program*

*Green packing solution*

*Don't buy new printers*





# HOW WE CAN CALCULATE CARBON FOOTPRINT

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



# CONCLUSION

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





THANK YOU