

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: Ms.MENARIA KOMAL CHANDRAPRAKASH

Roll No: 42 Programme: BSc IT Semester: II

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

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

External Examiner

Subject-In-Charge
(Ms.Sweety Garg)

Date of Examination: (College Stamp)

Name: MENARIA KOMAL CHANDRAPRAKASH Roll No: 42

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.	2/3/21	WRITING BLOGS	
7.	9/3/21	Implementing coding practices in Python using PEP8.	
8.	9/3/21	PRESENTATION: Unified communication	

Roll No: 42 Class: FYBSCIT

Practical1: 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, a Sydney, Australia

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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.

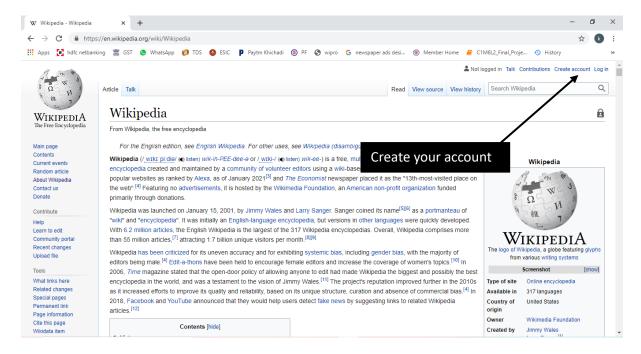
Employees use Wikipedia to attach files, update web pages and integrate information for their job.

• 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 Editing Wikipedia Kathy Gill

b) Creating Account on Wikipedia

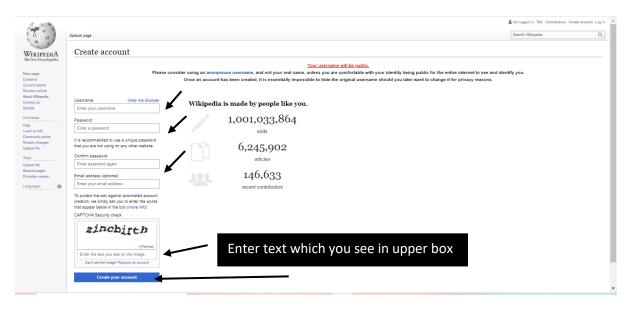
Step1: Click on Create account button to create your account.



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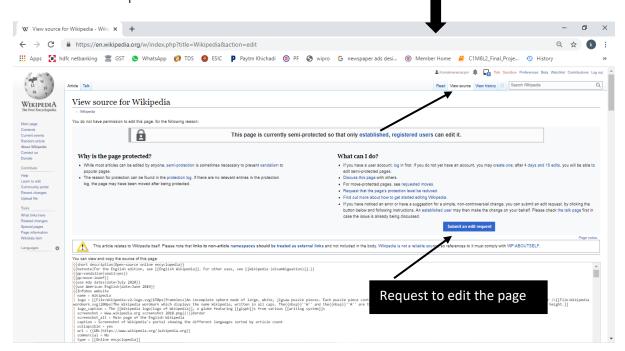
Step2: Fill all the information carefully and after that click on the Create your account button to

create account.



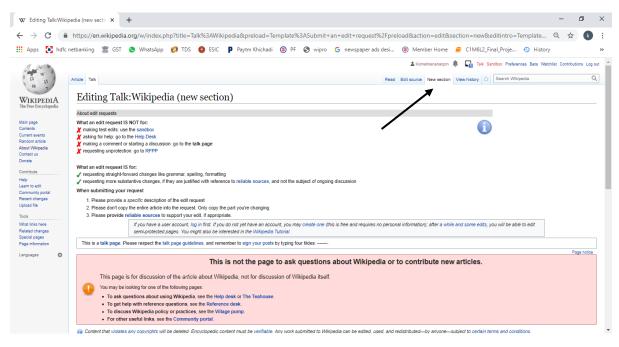
c) Creating your page on Wikipedia

Step1: click on the view source button then you will reach on this page then click on submit an edit request button.



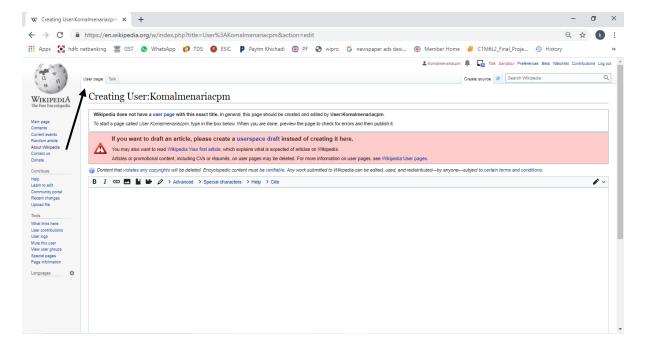
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Step2: Click on New section to create your page.



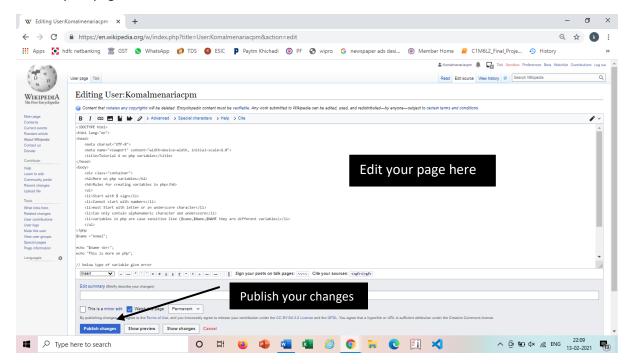
d) Editing your page on Wikipedia

Step1: 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.

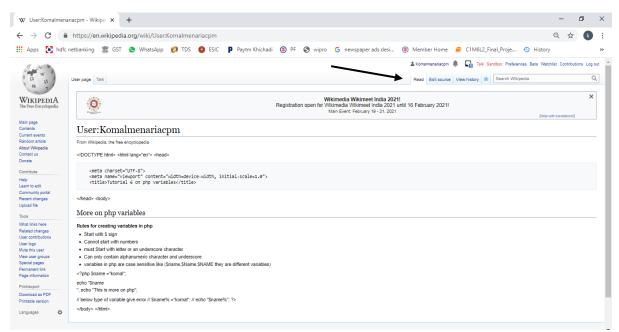


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Step2: Here you can fill necessary information and at the end click on Publish changes button to Publish your page information.



Step3: Click on the read button and you will reach on your edited page.

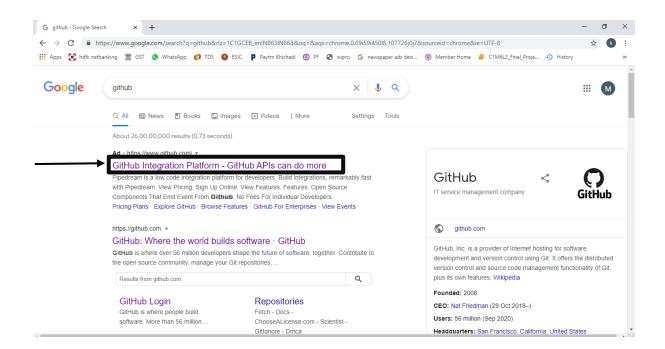


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PRACTICAL 2: Creating account, repository on Github s and cloning repository in Github

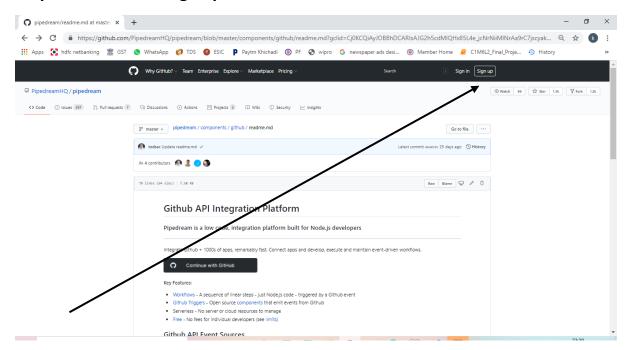
a) Creating account: -

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

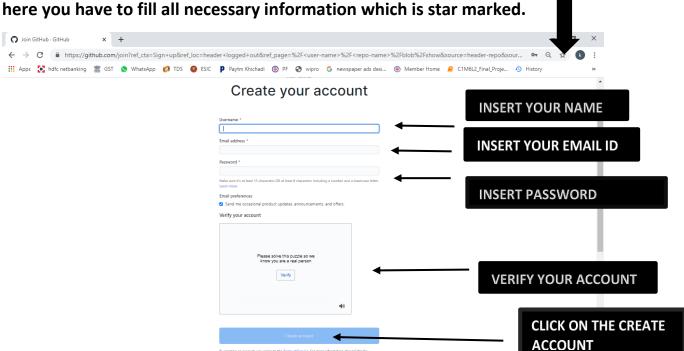


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Step 2: Click on the sign up button to create an account on Github.



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

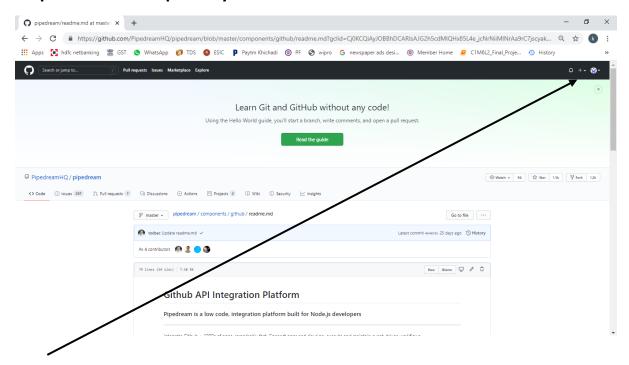


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Step 4: After fill all the information verify your account and click on the Create Account button. Now your account is created.

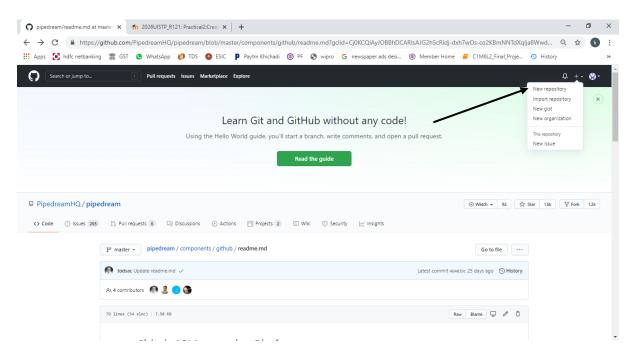
b) Creating repository:

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



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

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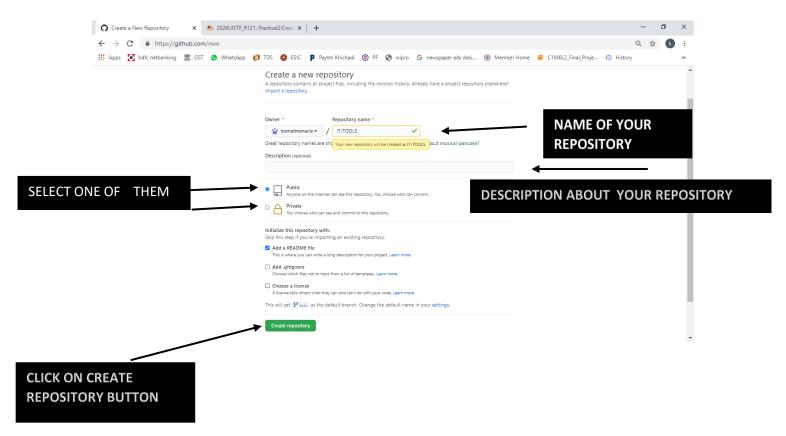


Step 3: After clicking on the New repository you reach on this page here you have to give your Repository name, click on the private or public button.

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.

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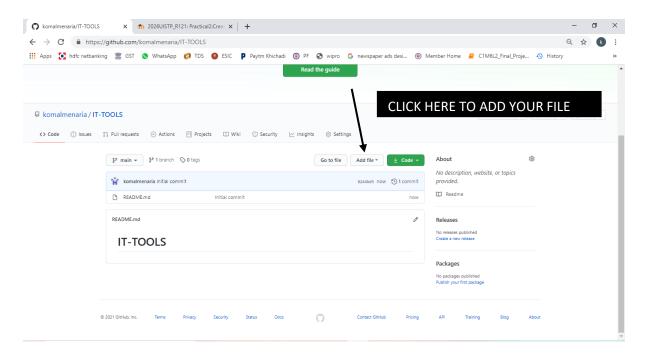


Step 4: In the last click on the create repository button.

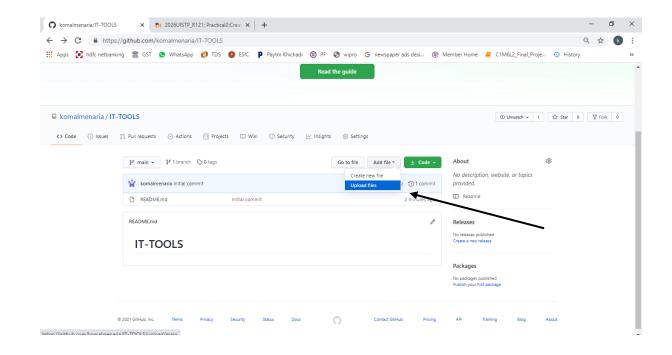
c) Cloning repository:

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

Roll No: 42 Class: FYBSCIT

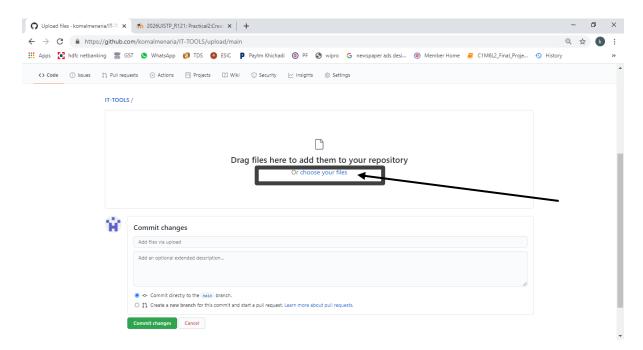


Step 2 click on upload files here you can add any no of file in the repository.

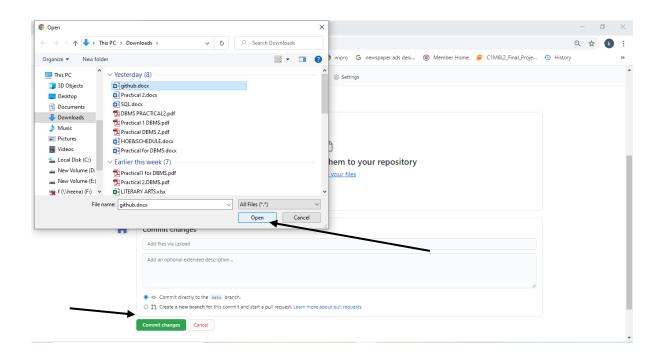


Step 3: Click on choose your files to select your file.

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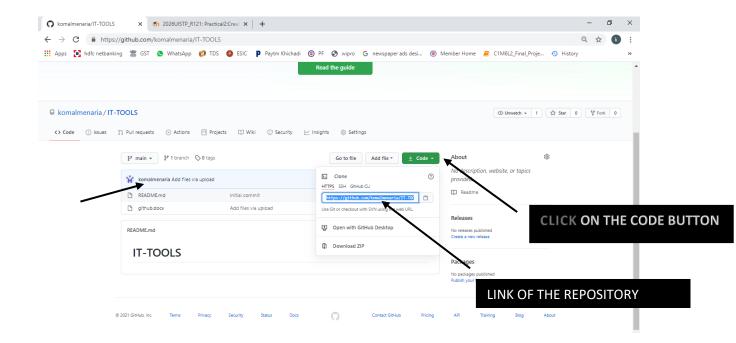


Step 4: Select the file which you want and click on open button and atlast click on the commit changes button to save the changes.



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



PRACTICAL 3: BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

a) Describe open source Software with Example.

Open-source software is a type of computer software in which source code is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software to anyone and for any purpose. Open-source software may be developed in a collaborative public manner.

Open source Software is released through a specific kind of license that makes its source code legally available to end-users. The source code can be repurposed into other new software, meaning anyone can take the source code and distribute their own program from it.

Some examples of open source software:

Linux operating system

Android by Google

Open office

Firefox browser

VCL media player

Moodle

b) Describe Free Software with Example

The concept of free software is the brainchild of Richard Stallman, head of the GNU Project. The best known example of free software is Linux, an operating system that is proposed as an alternative to Windows or other proprietary operating systems. Debian is an example of a distributor of a Linux package.

Some examples of free source software:

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

. . .

- Apache, the most widely used web server in the world. ...
- The Gimp is a powerful bitmap mode digital creation program. ...
- PostgreSQL is an object-relational database.

c) Difference between Free and open source Software.

SR.NO	Free Source Software	Open source Software
1	Software is an important part	Software is just software. There
	of people's lives.	are no ethics associated directly to
		it.
2	Software freedom	Ethics are to be associated to
	translates to social	the people not to the
	freedom.	software.
3	Freedom is a value that is	Freedom is not an absolute
	more important than any	concept. Freedom should be
	economical advantage.	allowed, not imposed.
4	Examples: The Free	Examples: Prime examples of
	Software Directory	open-source products are the
	maintains a large database	Apache HTTP Server, the e-
	of free-software packages.	commerce platform
	Some of the best-known	osCommerce, internet
	examples include the	browsers Mozilla Firefox and
	Linux kernel, the BSD and	Chromium (the project where
	Linux operating systems,	the vast majority of
	the GNU Compiler	development of the freeware
	Collection and C library;	Google Chrome is done) and
	the MySQL relational	the full office suite LibreOffice.
	database; the Apache web	
	server; and the Sendmail	
	mail transport agent.	

PRACTICAL 4: Email

inviting you to join trip to mussorie during winter break





42_komalmenaria_FYBSCIT < komalmenariacpm2003@gmail.com> to dharmitshah68029 +

12:11 AM (0 minutes ago) 🛕 🦍



42_komalmenaria_FYBSCIT < komalmenariacpm2003@gmail.com >

12:08 AM (2 minutes ago)



to dharmitshah68029

Dear dharmt,

I hope this letter finds you in pink of health . I miss you so much dharmit, I hope after receiving my letter , I will be able to bring a smile on your face .

I am pretty excited to tell you about a adventurous trip on which I am going to ask you to come with. I want to explore that trip with you my friend,

I have planned a Missouri trip in winter vications .

I hope that you wouldn't say no for this trip , I have way too many hopes attached to this question ..." Are you ready to

I will be really happy if you join me on this trip. I will give you the trip plan as soon as you answer my question. Say hello to uncle and aunty.

your lovely friend,

komal menaria

PRACTICAL 5 GREEN COMPUTING

1. Explain Green Computing with its advantages.

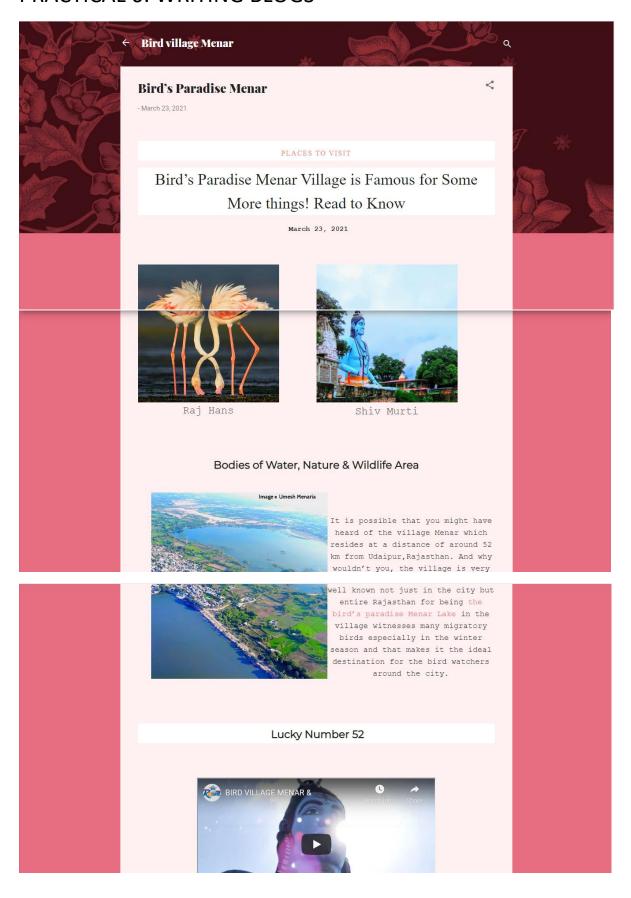
Ans: Green computing refers to durable computing of the environment. This reduces the use of electricity as well as power and reduces environmental waste when we are using a computer. It computing has the same goal with green chemistry, which is now the life of the product and makes the product more energy efficient, the abandoned product and factory waste are more easily recycled and to be biodegradable, less Dangerous Use Content.



Advantages of green computing:

- Lessened vitality utilization by green registering advances converts into low carbon dioxide emanations, which emerge because of the absence of petroleum derivatives utilized as a part of intensity plants and transportation.
- Conservation of resources means less energy is required to produce, use and dispose of products.
- Saving energy and resources saves money.
- Green processing includes changing government arrangement to empower reusing by people and organizations and to lessen vitality utilization.
- Reduce existing exposure in laptops such as chemical, cancer, nerve damage, and is known due to immune responses in humans.

PRACTICAL 6: WRITING BLOGS



← Bird village Menar



It is also said that the village has some sort of connection with the number 52. Villagers say that several years ago, Maharana Pratap got so impressed by the bravery and courage of the villagers that he gifted a land of 52 Bigha (a measure of land) to this village. Also, the distance between the district headquarters and the village is also 52 km. This can be the possible reason why the height of the idol is kept 52 feet.

"Jamrabij Festival at Menar"



I had been fortunate to be invited to
Jamrabij festival this year by my Uncle Mr. Yogendra Menaria, and Mr. Sanju
Menariaa resident in Menar village, to witness this Jamrabij festival,

which takes place one day after Holi festival. This festival is celebrated every year for last 400 years by villagers in Menar. This village is perdominantly inhabited by Brahmins which took up arms against a Mughal outpost during King Uday Singh of Mewar.

The brave Menaria Brahmins were able to dislodge Mughal outpost due to which King Uday Singh of Mewar donated 52000 Bighas of land to Brahmins of Menar and now this village is known as Menar village. During this



festival, five different groups of people from five lanes leading to main market place in the heart of Menar village converge and celebrate the victory over Mughal outpost by bursting fire crackers, firing gun powder in air.



I think

all groups from the five lanes compete with each other for loudest fire-crackers. This festivity starts in the evening after 9PM with war drums. Villagers come with traditional war dresses and carry shield, guns, swords etc. At the end of the 'war drama with firecrackers, firing in the air', women folks come singing and worship for the victory.

Written By:-

KOMAL MENARIA

PRACTICAL7: Implementing coding practices in Python using PEP8

PEP 8 exists to improve the readability of Python code.

1: Naming Conventions

When you write Python code, you have to name a lot of things: variables, functions, classes, packages, and so on. Choosing sensible names will save you time and energy later. You'll be able to figure out, from the name, what a certain variable, function, or class represents. You'll also avoid using inappropriate names that might result in errors that are difficult to debug.



2: How to Choose Names

When naming variables, you may be tempted to choose simple, single-letter lowercase names, like x. But, unless you're using x as the argument of a mathematical function, it's not clear what x represents.

```
# Not recommended

x = 'komal menaria'

y, z = x.split()

print(z, y, sep=', ')

'komal, menaria'

# Recommended

2 name = 'komal menaria'

3 first_name, last_name = name.split()

print(last_name, first_name, sep=', ')

'menaria, komal'

6

7
```

3: Code Layout

Blank Lines

Vertical whitespace, or blank lines, can greatly improve the readability of your code. Code that's bunched up together can be overwhelming and hard to read. Similarly, too many blank lines in your code makes it look very sparse, and the reader might need to scroll more than necessary. Below are three key guidelines on how to use vertical whitespace.

Surround top-level functions and classes with two blank lines.

Top-level functions and classes should be fairly self-contained and handle separate functionality. It makes sense to put extra vertical space around them, so that it's clear they are separate:

Surround method definitions inside classes with a single blank line.

Inside a class, functions are all related to one another. It's good practice to leave only a single line between them:

4: Indentation

Indentation, or leading whitespace, is extremely important in Python. The indentation level of lines of code in Python determines how statements are grouped together.

5: Comments

You should use comments to document code as it's written. It is important to document your code so that you, and any collaborators, can understand it. When you or someone else reads a comment, they should be able to easily understand the code the comment applies to and how it fits in with the rest of your code.

Here are some key points to remember when adding comments to your code:

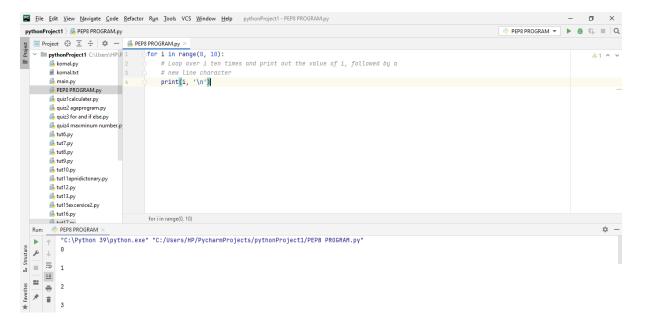
- Limit the line length of comments and docstrings to 72 characters.
- Use complete sentences, starting with a capital letter.
- Make sure to update comments if you change your code.

Block Comments

Use block comments to document a small section of code. They are useful when you have to write several lines of code to perform a single action, such as importing data from a file or updating a database entry. They are important as they help others understand the purpose and functionality of a given code block.

PEP 8 provides the following rules for writing block comments:

- Indent block comments to the same level as the code they describe.
- Start each line with a # followed by a single space.
- Separate paragraphs by a line containing a single #.



UNIFIED COMMUNICATION



GROUP NO:4

Devangi Parmar -133

Kiran Kidecha - 130

Komal Menaria - 42

Karishma Murkar - 49

Mehul Gohil – 14

Dharmit Shah - 75

Vansh Nagda - 127

Dharmik Kothari -36

Dev Sanghavi - 73

Ujjval Jain - 25

Today's Agenda

- UC Overview & Definition
- Technologies
- Benefits
- Disadvantages
- ROI(Return on Investment)
- Challenges
- Security Issues
- UC Platforms
- UC Military Drivers
- Features of UC

What is Unified Communications?

Unified communications (UC) is a business and marketing concept describing the integration of enterprise communication services such as instant messaging (chat), presence information, voice (including IP telephony), mobility features (including extension mobility and single number reach), audio, web & video conferencing, and many more.

Overview & Definition

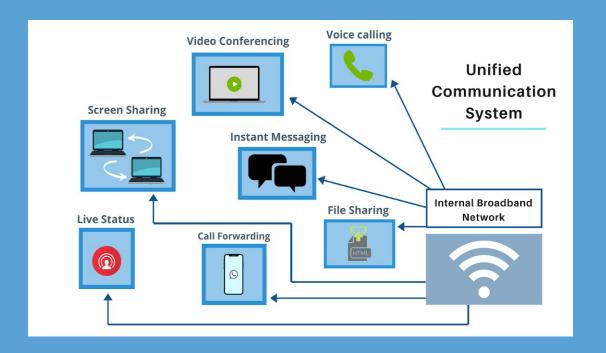
- Unified Communications (UC) intelligently integrates many communications applications
- UC is an evolving set of technologies
- Many businesses are turning to UC to enhance business processes
- Service providers are increasingly providing Unified Communication
- UC can drastically change the bottom line of business



TECHNOLOGY

UC is integration of real time communication such as:

- Presence Information
- Telephony (especially VoIP)
- Data Sharing
- Call Control



Benefits

- Collaborations
- Communications
- Access
- Business process integration
- Presence



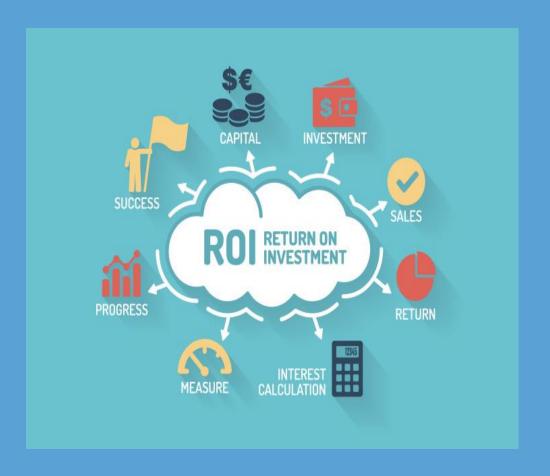
DISADVANTAGES

- Learning curve
- Environmental factors
- Poorly worded messages
- interoperability issues



ROI (Return on Investment)

- UC investment improve productivity and availability
- Typical UC rollout
- Many UC products are complex to deploy
- A UC system can cut traditional telephony costs
- Intangible UC benefits are harder to define



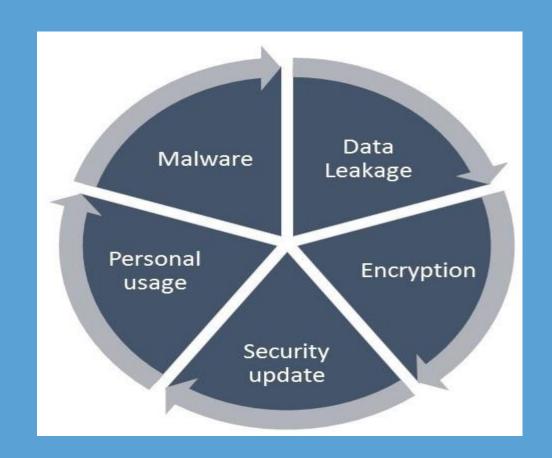
Challenges

- User adoption and adaption
- Technical implementation
- Optimising the cost of unified communication
- Challenges in IT staff.



Security Issues

- Theft of service
- Denial of services
- Hacking tools
- Fraud prevention
- Security controls



UC PLATFORMS



- Ring Central –Best Overall on quality and value
- 8x8 : Good value for the price
- Dialpad : Easy to use
- Broadvoice : Affordable upfront
- 3CX : super cheap
- Mitel: Reliable products







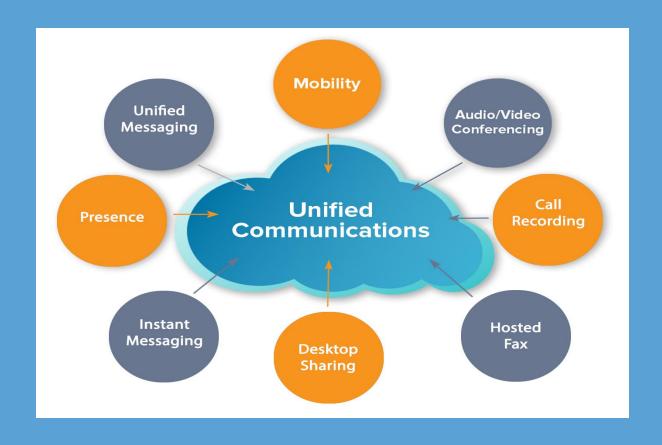
MILITARY DRIVERS

- Familiar to the UC technology
- Rapid access to information for better decision making
- Enhanced mobility
- Ability to reach each and everyone
- Reduce total cost of ownership with easy maintenance and technical training



FEATURES

- Unified Messaging
- Direct Call Routing & Forwarding
- Integration
- Dynamic Lines
- Mobile Apps



THANK YOU