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. Abhishek B. Sarkate
Roll No: 51 **Programme**: BSc IT/CS **Semester**: II

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

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

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

Date of Examination: (College Stamp)

Name: Abhishek B. Sarkate **Roll No: 51**

Sr. No.	DATE	TITLE	SIGN
1.	02/02/2021	INTRODUCTION and CONTRIBUTING TO WIKIPEDIA a) What is Wikipedia? b) Steps to Create Account on Wikipedia c) Creating Page on Wikipedia d) Edit your page	
2.	09/02/2021	Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.	16/02/2021	BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE a) Describe Open-Source Software with Example. b) Describe Free Software with Example c) Difference between Free and Open-Source Software.	
4.	23/02/2021	WRITING EMAIL	
5.	25/02/2021	Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.	02/03/2021	WRITING BLOGS	
7.	09/03/2021	Implementing coding practices in Python using PEP8.	
8.	16/02/2021	PRESENTATION: Open Source Software	

Practical1: ***Introduction and Contribution to Wikipedia***

Description about Wikipedia:

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

Features:

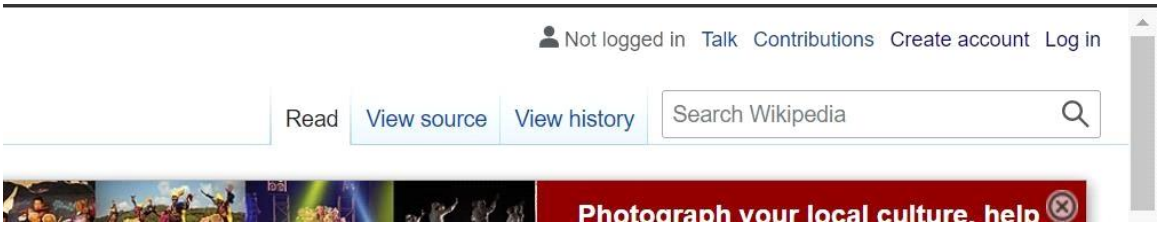
You may not have realized, but you've probably already used a Wiki. The most famous example most people have engaged with is Wikipedia, the free internet encyclopaedia that anyone can edit. While your company Wiki may not end up containing quite as many answers, the concept and functionality is the same.

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

Creating Account on Wikipedia:

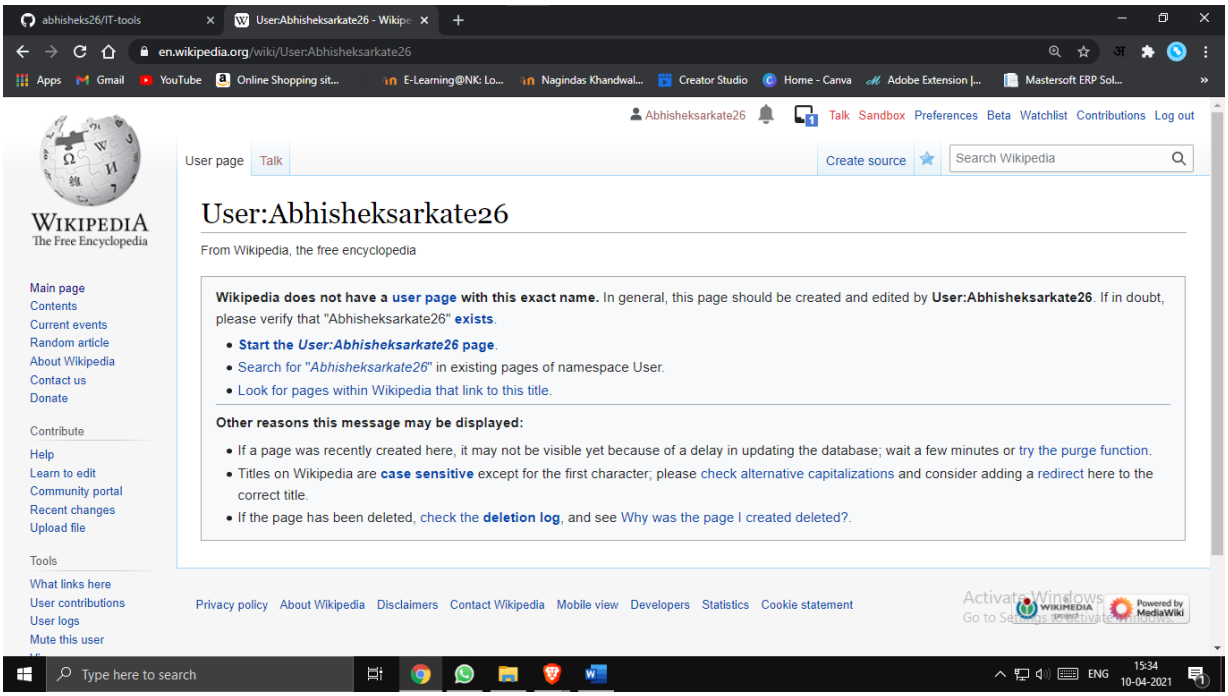
- Go to ==> https://www.wikipedia.org HYPERLINK "https://www.wikipedia.org/"
- The click on the english as shown

- Click on create account

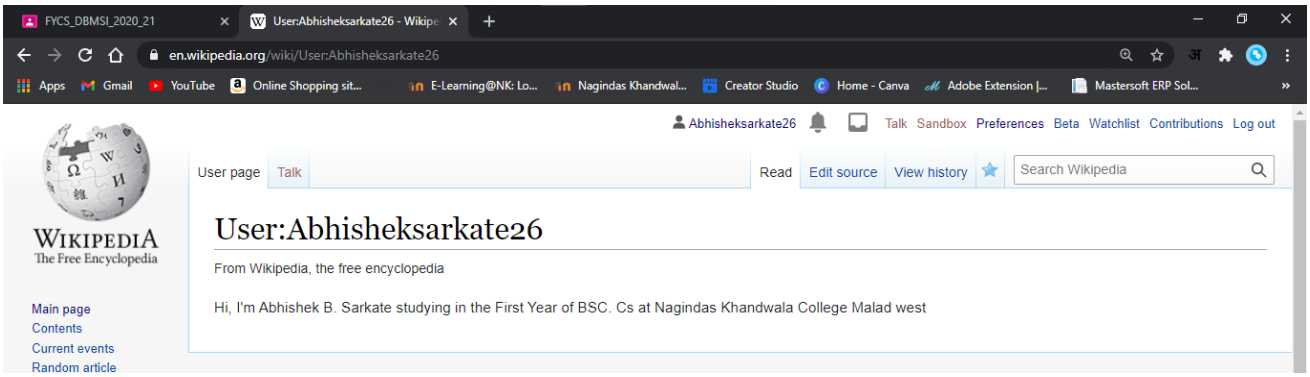


- Fill all the detail as shown in the photo

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



- Editing your page on Wikipedia

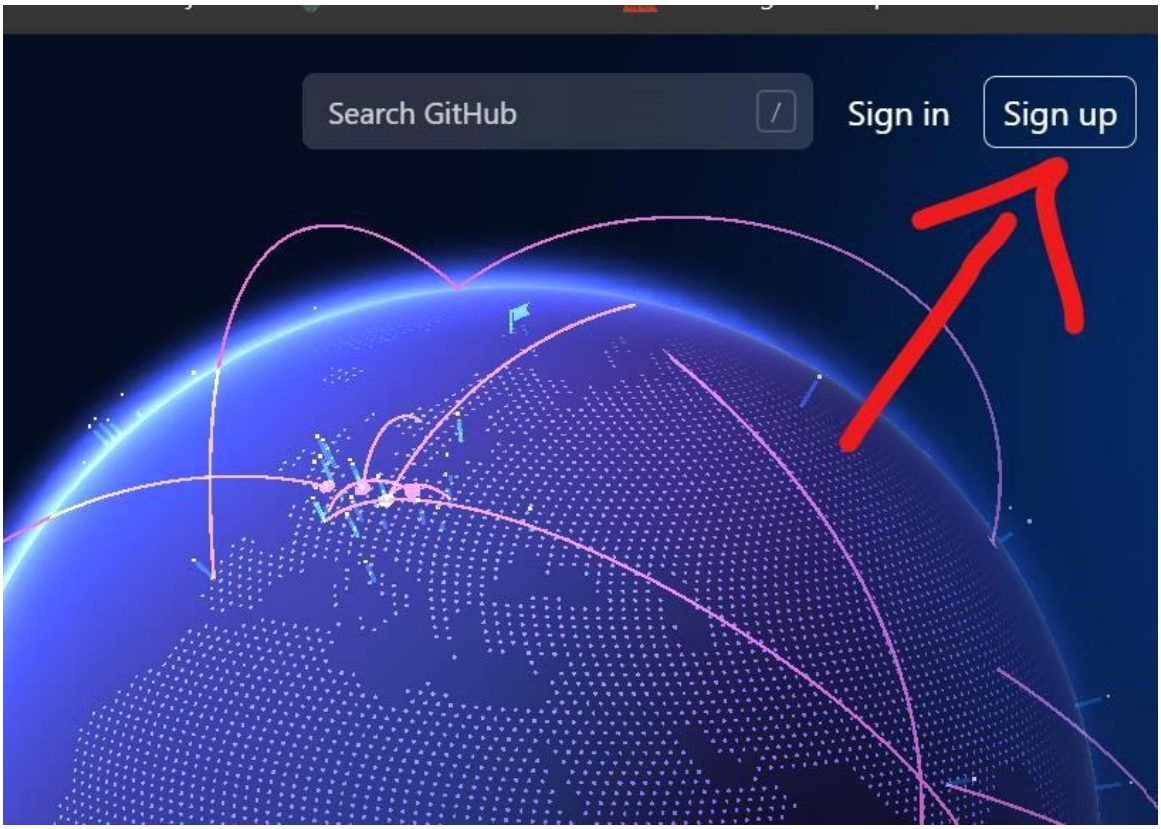


Practical2: Creating account, repository on Github and Cloning repository in Github

a) Creating Account

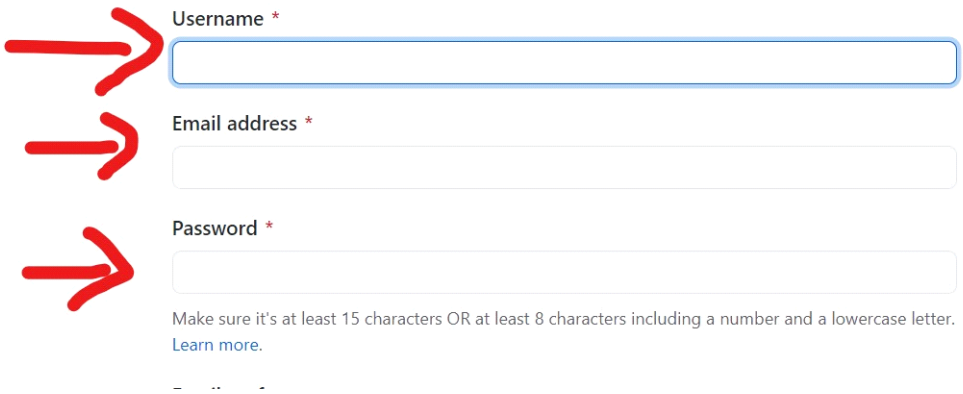
Go to https://github.com/ HYPERLINK "https://github.com/"

Then click on Sign up

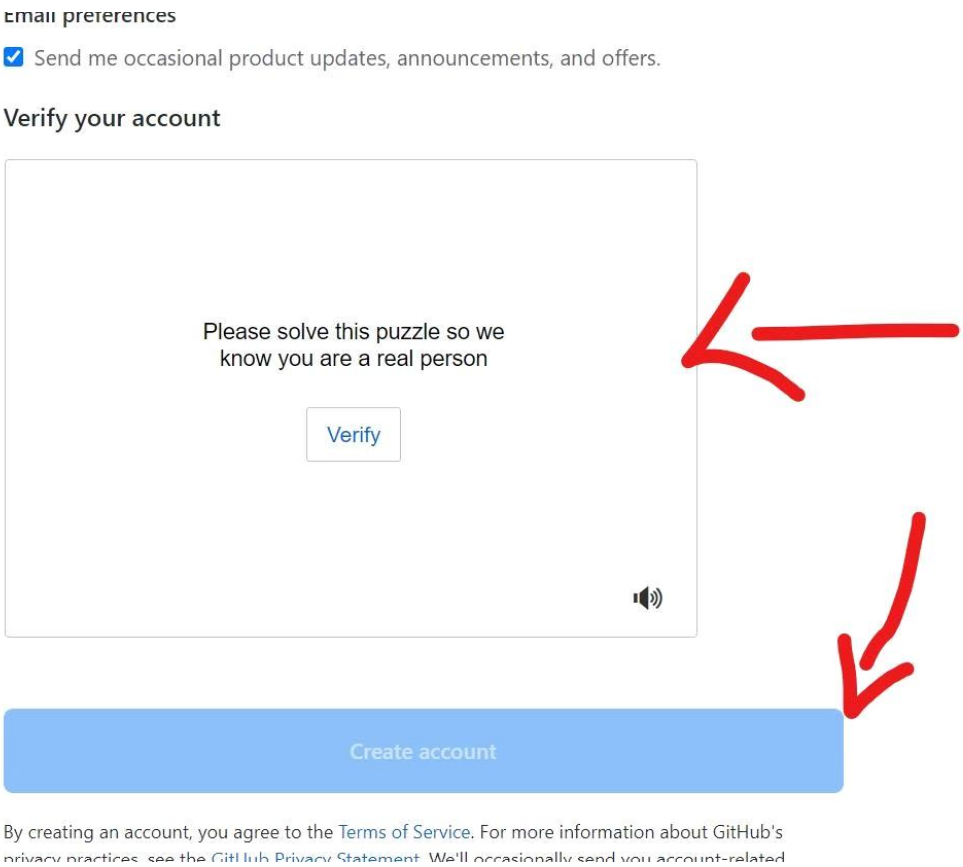


b)Fill up your detail ::-

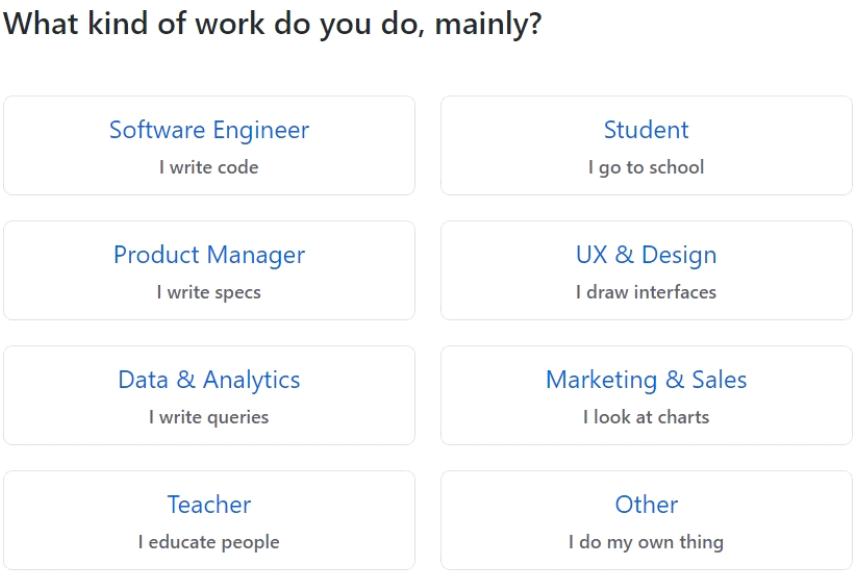
Username, Password, and Email:



Then verify the your email and click create account :



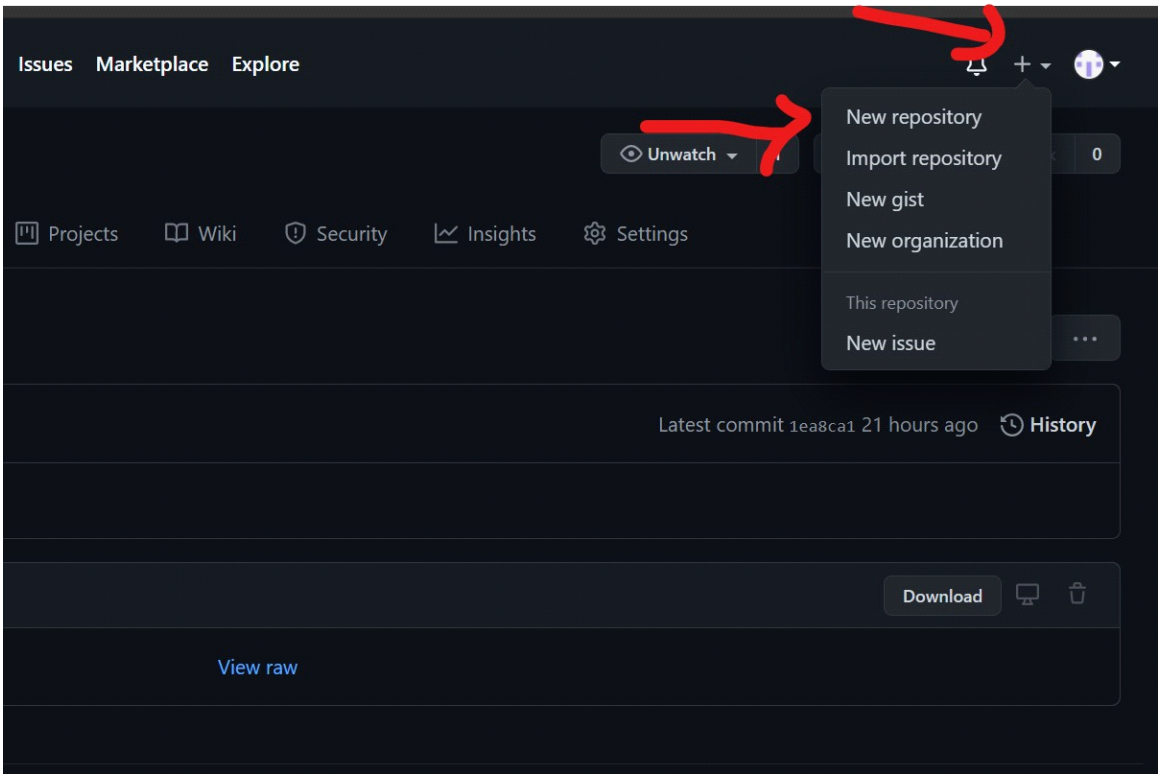
- **Select the occupation**



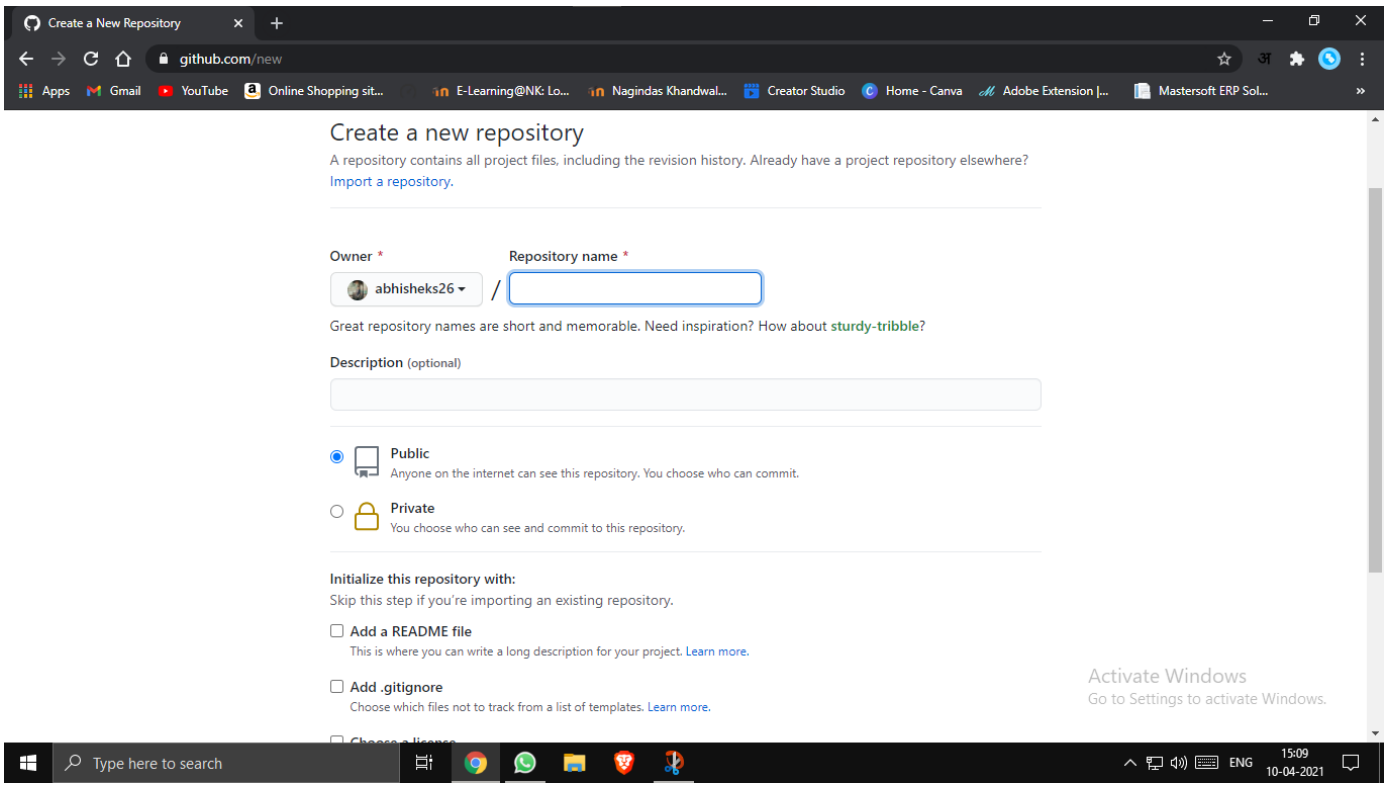
b)

Creating Repository :

Click on + sign and click on New repository



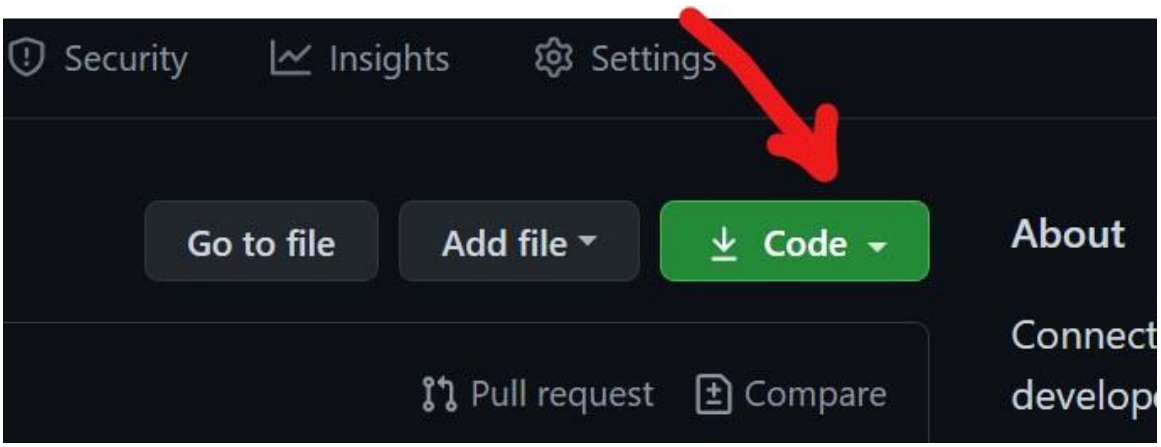
Give Name to your repository and do the setting as per requried



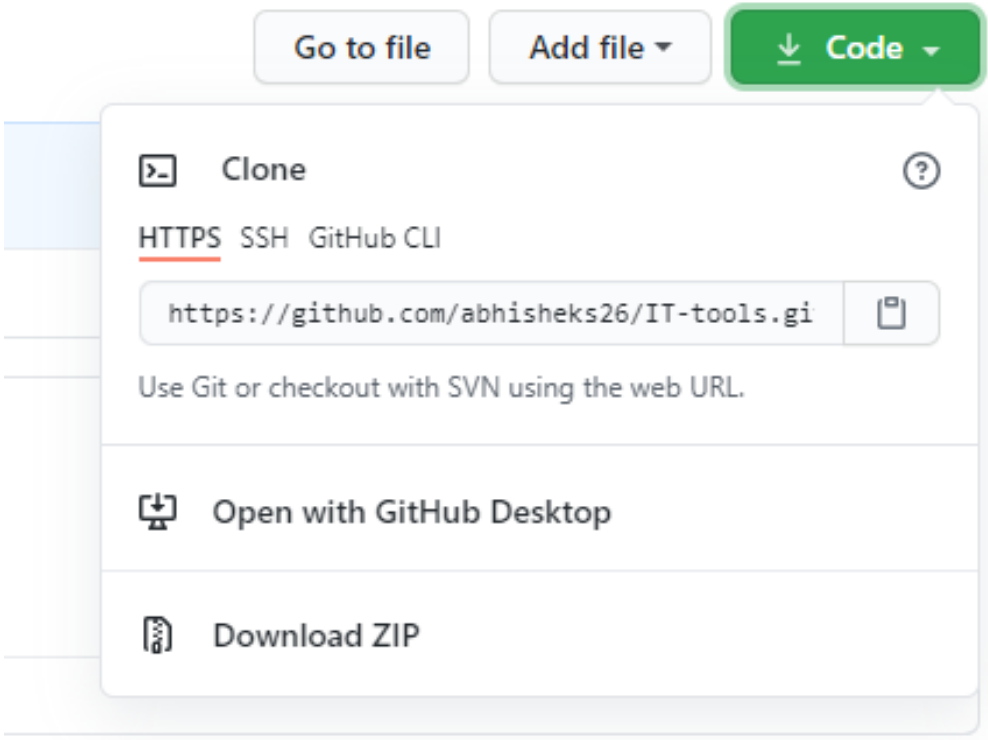
c) Cloning repository:

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

OBJ



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



PRACTICAL 3:

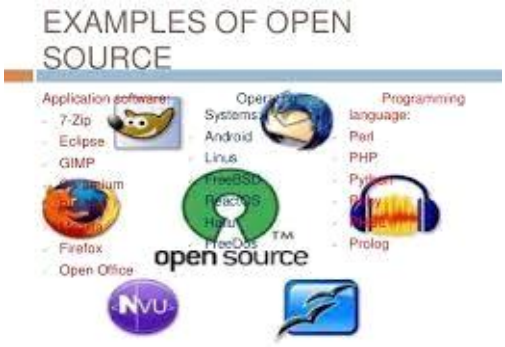
BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

a) Describe Open-Source Software with Example.

- The term open source HYPERLINK "https://opensource.com/article/18/2/coining-term-open-source-software" refers to something people can modify and share because its design is publicly accessible.
- Open-source software is software with source code that anyone can inspect, modify, and enhance.
- "Source code" is the part of software that most computer users don't ever see; it's the code computer programmers can manipulate to change how a piece of software a "program" or "application" works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

Example:

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



Describe Free Software with Example:

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

Difference between Free and Open Source Software: Free software

Open source software

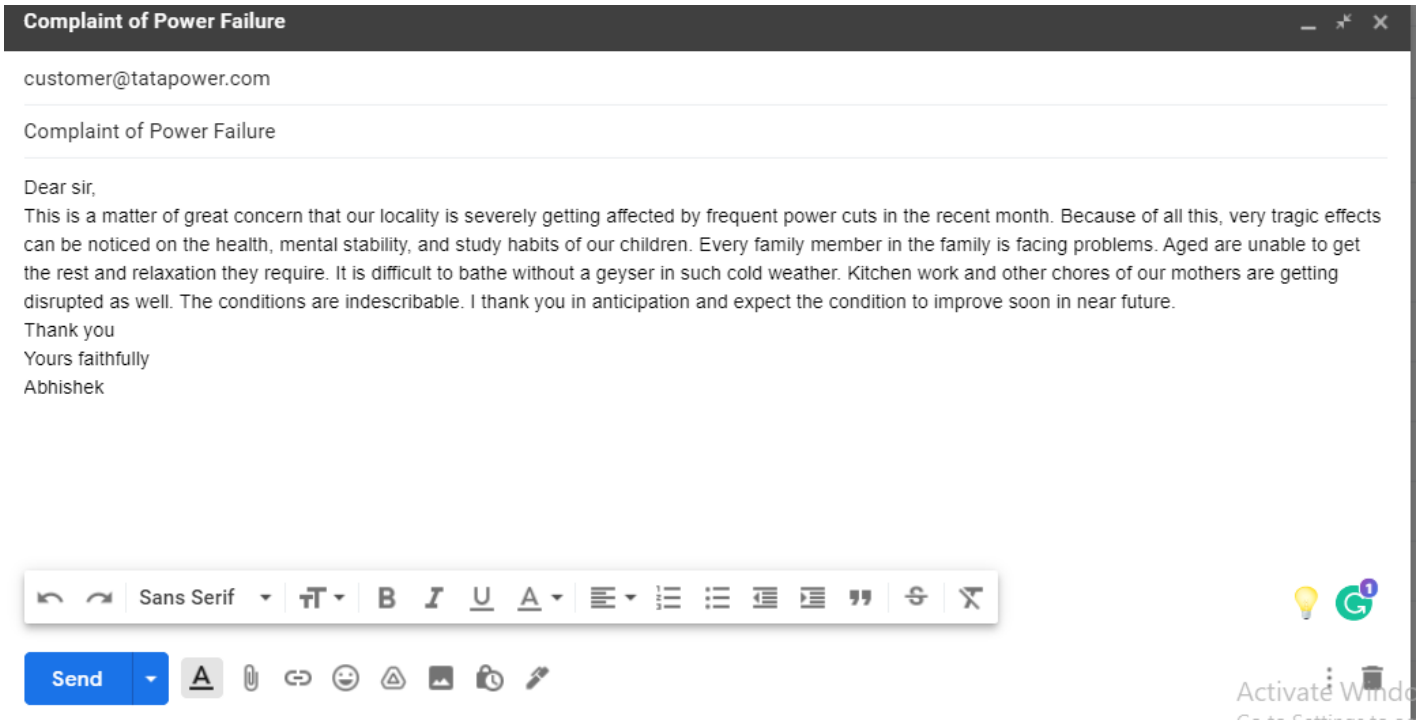
    - Software freedom translates to social freedom.
    - Software is an important part of people's lives.
    - Freedom is a value that is more important than any economical advantage.
    - Examples: The Free Software Directory maintains a large database of free-software packages. Some of the best-known examples include the Linux kernel, the BSD and Linux operating systems,

- Ethics are to be associated to the people not to the software.

- Software is just software. There are no ethics associated directly to it.
- Freedom is not an absolute concept. Freedom should be allowed, not imposed.
- Examples: Prime examples of open-source products are the Apache HTTP Server, the ecommerce platform osCommerce,

IT Practical 4

Writing Mail



Practical 5:

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

Green computing is the environmentally responsible and eco-friendly use of computers and their resources. In broader terms, it is also defined as the study of designing, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact.

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

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

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

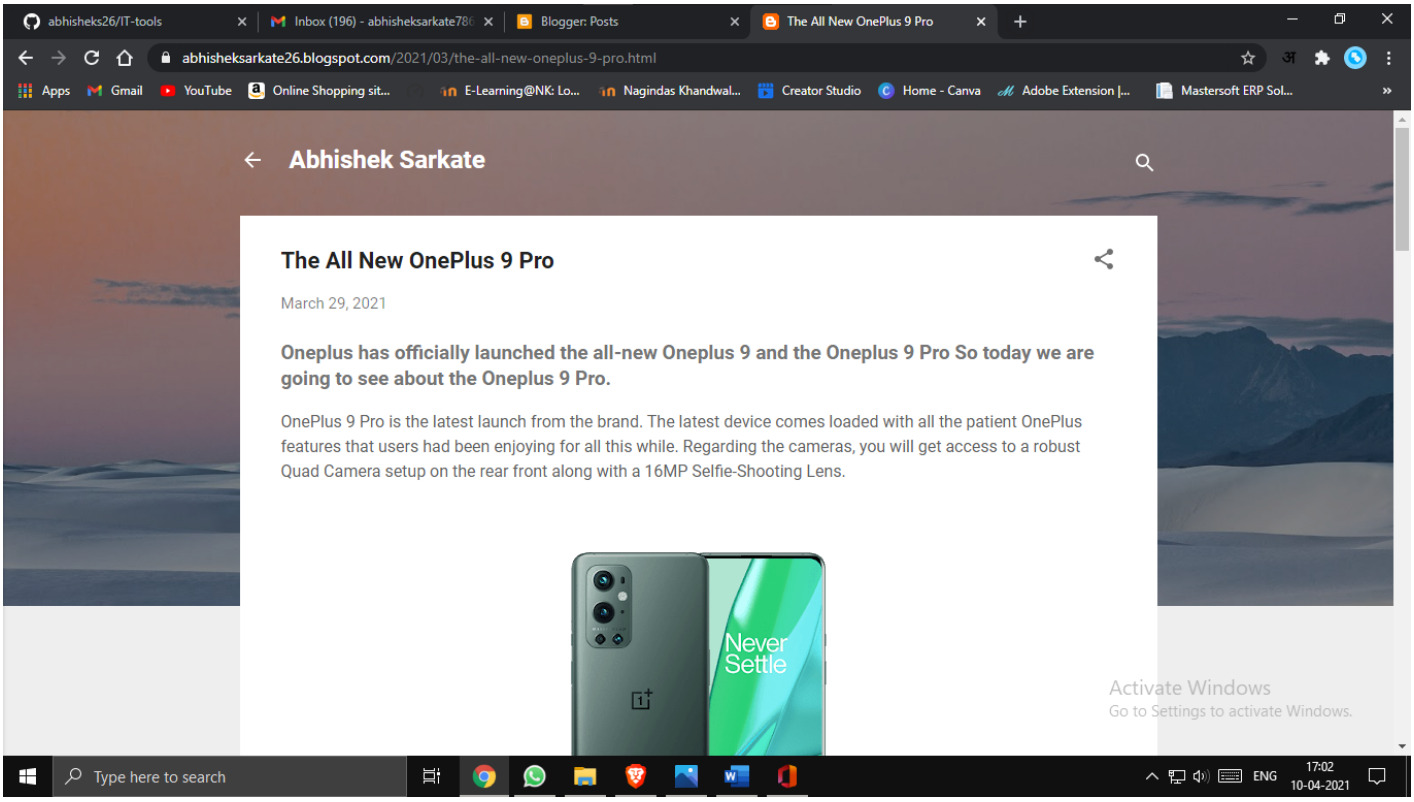
Despite the debate over whether it's better for your computer to be left on or shut off, the fact is it's better for the environment to shut it off. In fact, computers were designed to be turned off and back on!

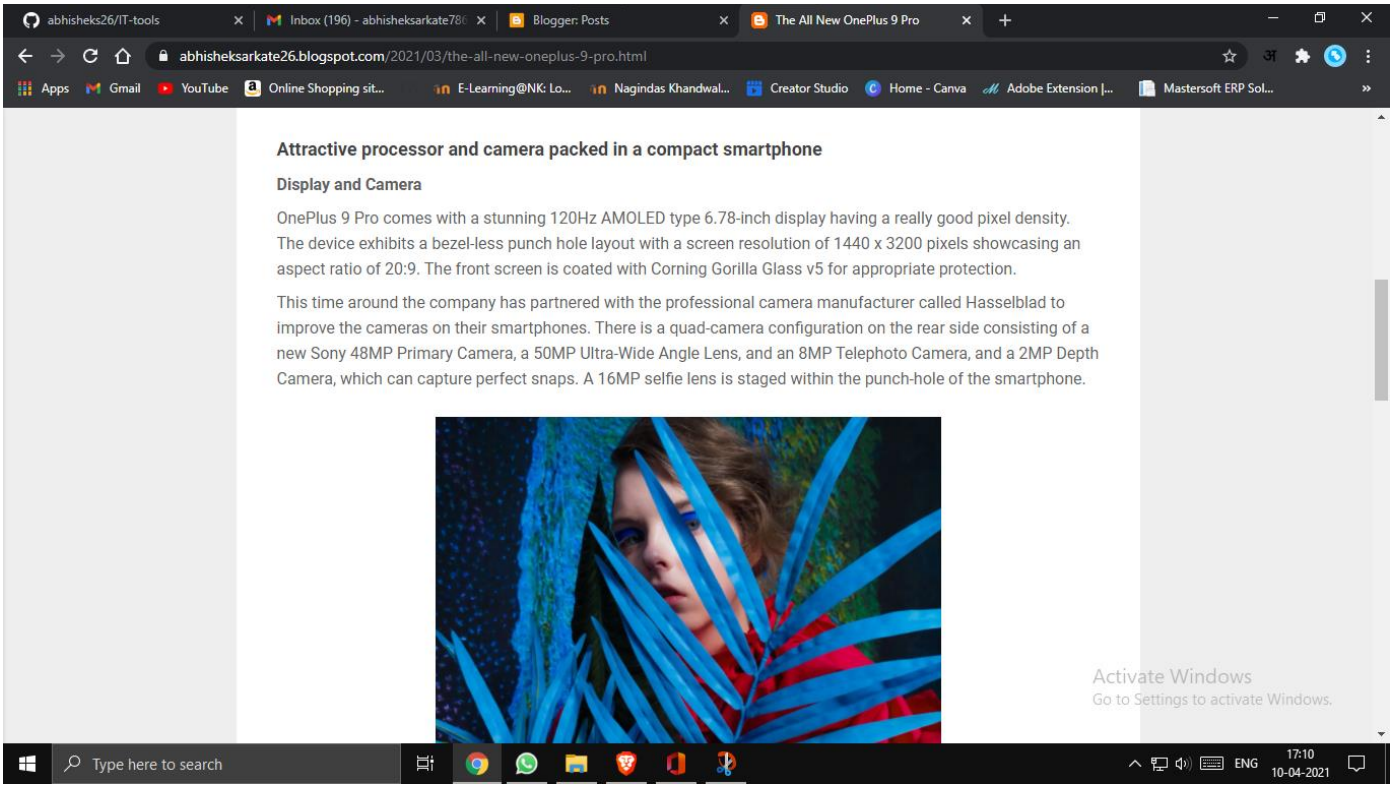
• E-cycle used computer equipment::-

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

Practical 6

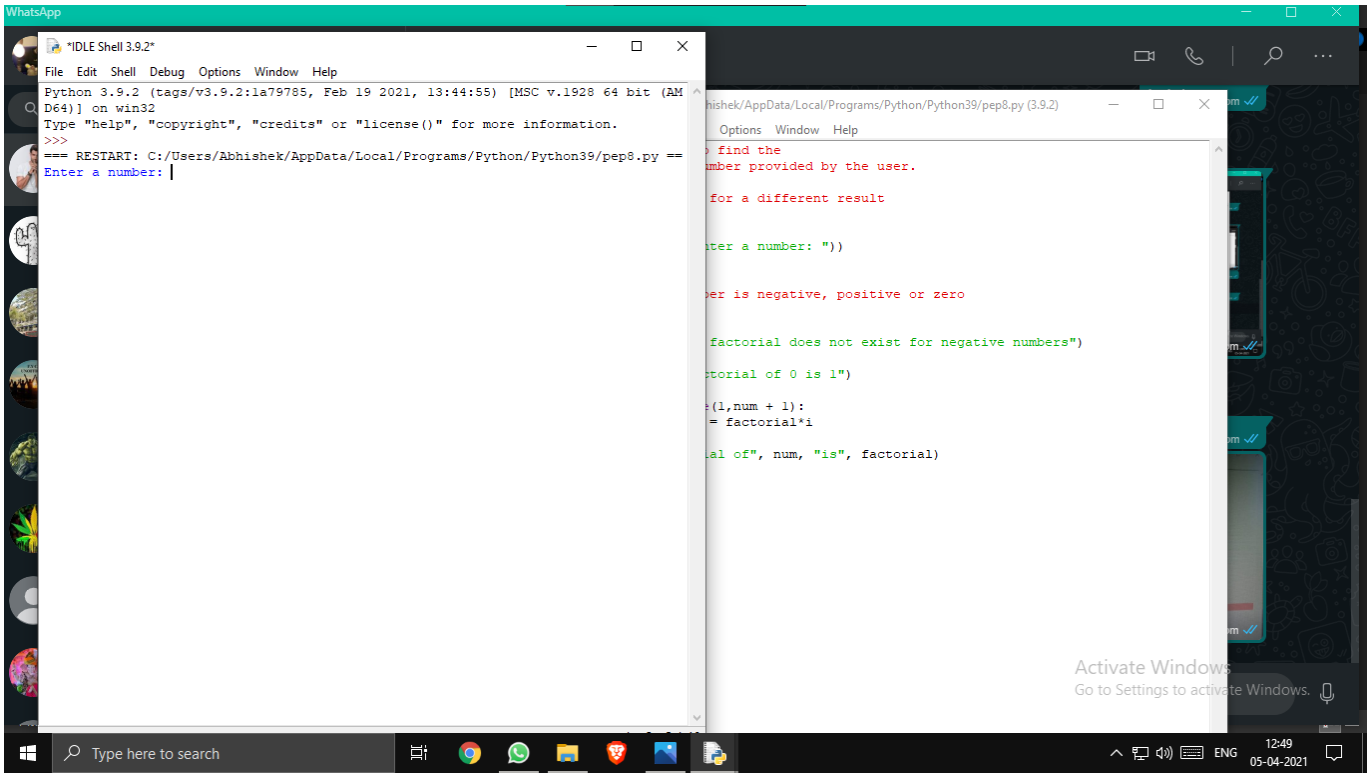
WRITING BLOGS

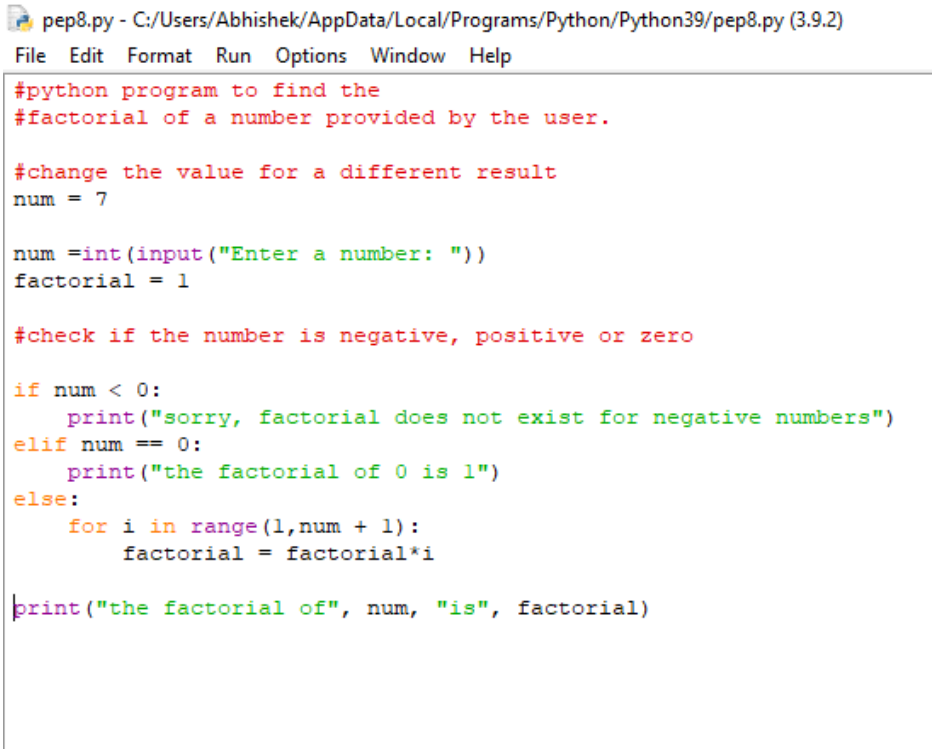

abhisheks26/IT-tools
Inbox (196) - abhisheksarkate78
Blogger: Posts
The All New OnePlus 9 Pro
abhisheksarkate26.blogspot.com/2021/03/the-all-new-oneplus-9-pro.html
Apps
Gmail
YouTube
Online Shopping sit...
E-Learning@NK: Lo...
Nagindas Khandwal...
Creator Studio
Home - Canva
Adobe Extension |...
Mastersoft ERP Sol...
Abhishek Sarkate
The All New OnePlus 9 Pro
March 29, 2021
Oneplus has officially launched the all-new Oneplus 9 and the Oneplus 9 Pro So today we are going to see about the Oneplus 9 Pro.
OnePlus 9 Pro is the latest launch from the brand. The latest device comes loaded with all the patient OnePlus features that users had been enjoying for all this while. Regarding the cameras, you will get access to a robust Quad Camera setup on the rear front along with a 16MP Selfie-Shooting Lens.
Never Settle
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
17:02
10-04-2021


abhisheks26/IT-tools
Inbox (196) - abhisheksarkate78
Blogger: Posts
The All New OnePlus 9 Pro
abhisheksarkate26.blogspot.com/2021/03/the-all-new-oneplus-9-pro.html
Apps
Gmail
YouTube
Online Shopping sit...
E-Learning@NK: Lo...
Nagindas Khandwal...
Creator Studio
Home - Canva
Adobe Extension |...
Mastersoft ERP Sol...
Attractive processor and camera packed in a compact smartphone
Display and Camera
OnePlus 9 Pro comes with a stunning 120Hz AMOLED type 6.78-inch display having a really good pixel density. The device exhibits a bezel-less punch hole layout with a screen resolution of 1440 x 3200 pixels showcasing an aspect ratio of 20:9. The front screen is coated with Corning Gorilla Glass v5 for appropriate protection.
This time around the company has partnered with the professional camera manufacturer called Hasselblad to improve the cameras on their smartphones. There is a quad-camera configuration on the rear side consisting of a new Sony 48MP Primary Camera, a 50MP Ultra-Wide Angle Lens, and an 8MP Telephoto Camera, and a 2MP Depth Camera, which can capture perfect snaps. A 16MP selfie lens is staged within the punch-hole of the smartphone.
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
17:10
10-04-2021

Practical 7

Implementing coding practices in Python using PEP8






OSS
Open Source Software

GROUP NO. 5

TANISH MARICK - 28

MARYLOU PEREIRA - 42

SATISH SAHANI - 71

DARREN PEREIRA - 41

VEDANT PHANASGAONKAR - 43

ABHISHEK SARKATE - 51

SANIYA SHAIKH - 56

INTRODUCTION

- What is an Open Source Software ?
- Source code can be repurposed into other new software
- The LAMP

ORGANIZATIONS

- Mozilla Foundation
- Apache Software Foundation
- Eclipse Foundation
- OW2
- Linux Foundation
- Debian Project

Groups promoting the use of OSS

Open Source Software Institute

Open Source for America

Mil-OSS

ADVANTAGES AND DISADVANTAGES

ADVANTAGES

- Highly reliable
- Promotes innovation
- Evolving continuously
- Fosters learning

DISADVANTAGES

- Non-user friendly
- Less personalized support
- Liabilities and warranties
- Security threats

Differences Between Open Source and Closed Source Software

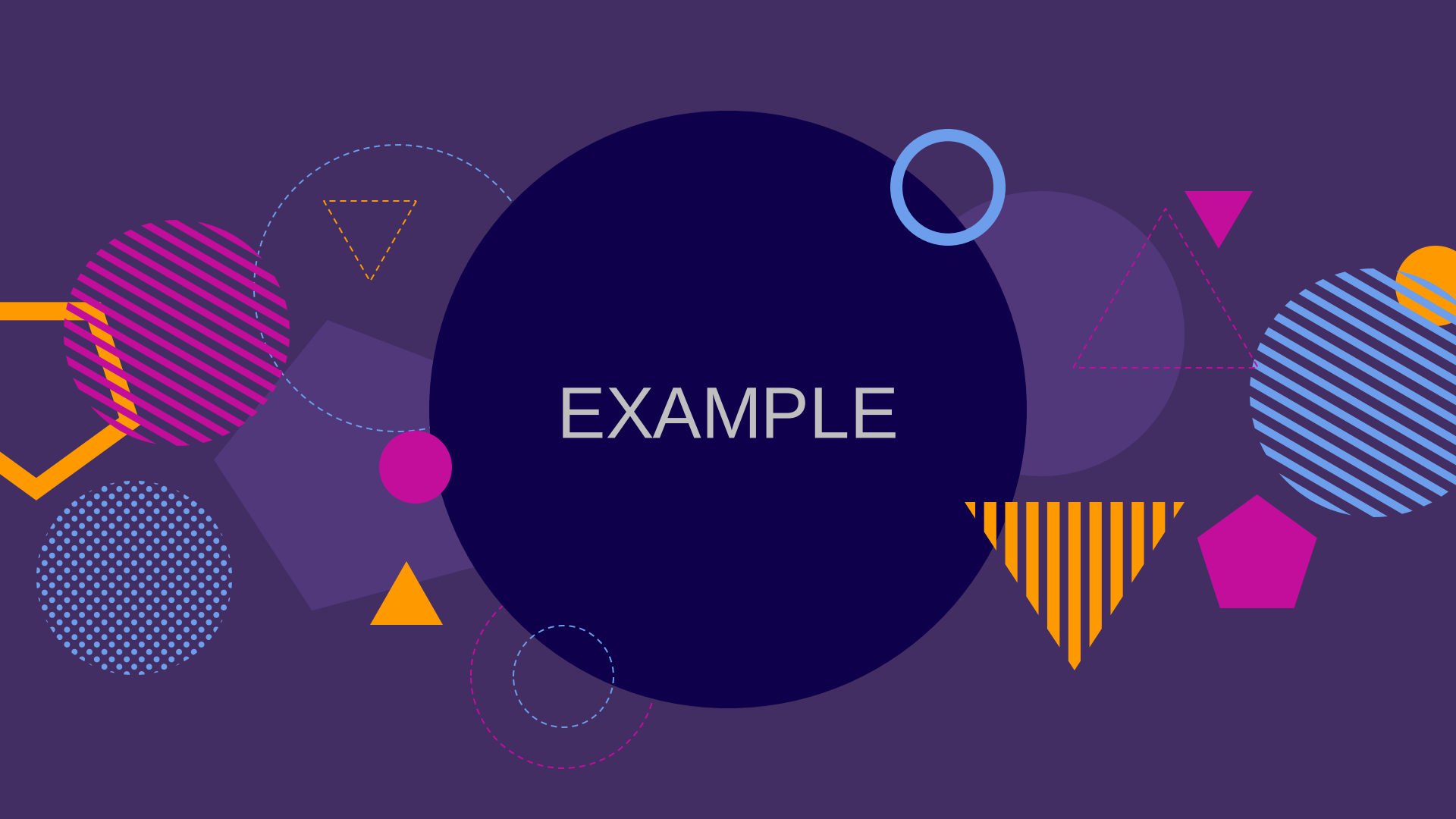
- Price policy
- Security
- Quality of support
- Source code availability
- Usability

OSS Security

- OSS possessing security threat
- More due diligance on OSS security needed
- Find and Fix

Synopsis Offerings for OSS Security

- Open Source Software and third-party code audit
- Open Source risk assesment
- Web services and API risk audit


EXAMPLE

PHP : Hypertext Preprocessor

- Websites and Web applications (server side scripting)
- Command line scripting
- Desktop (GUI) application

Thanks!