# NIELIT Gorakhpur

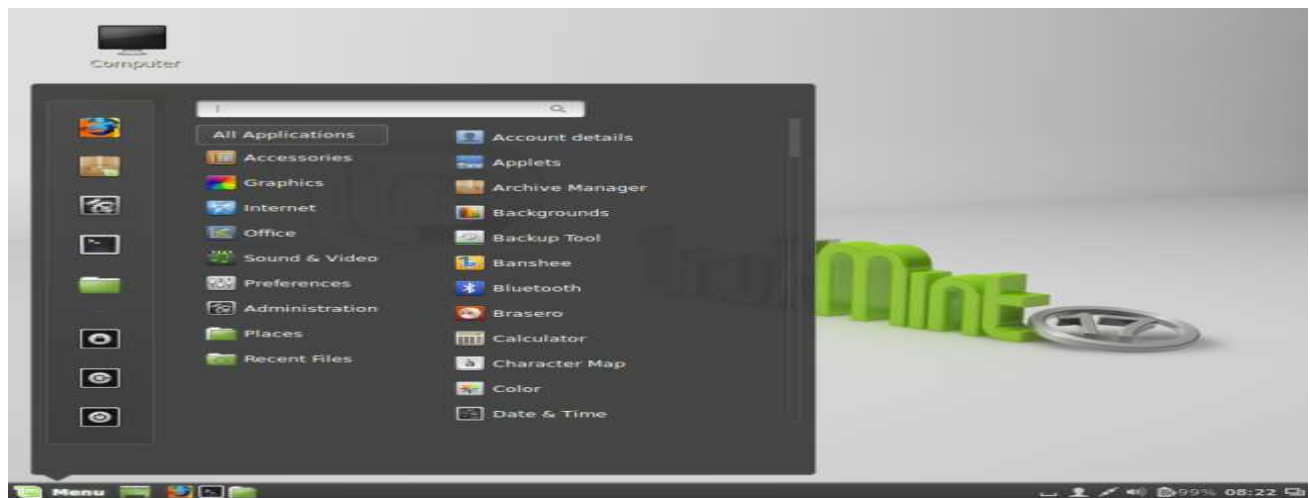## Popular Linux Distributions

## Ubuntu:-

Ubuntu is probably the most well-known Linux distribution. Ubuntu is based on Debian, but it has its own software repositories. The Ubuntu project has a focus on providing a solid desktop (and server) experience.Ubuntu used to use the GNOME 2 desktop environment, but it now uses its own Unity desktop environment. Ubuntu is even building its own Mir graphical server while other distributions are working on the Wayland. It offers releases every six months, with a more stable LTS (long term support) release every two years. Ubuntu is currently working on expanding the Ubuntu distribution to run on smartphones and tablets.



## Linux Mint

Mint is a Linux distribution built on top of Ubuntu. It uses Ubuntu's software repositories, so the same packages are available on both. Originally, Mint was an alternative distribution loved mainly because it included media codecs and proprietary software that Ubuntu didn't include by default.This distribution now has its own identity. We get a more traditional Cinnamon or MATE desktop. Mint takes a more relaxed approach to software updates and won't automatically install

critical.

## Debian

Debian is an operating system composed only of free, open-source software. The Debian project has been operating since 1993 — over 20 years ago! This widely respected project is still releasing new versions of Debian, but it's known for moving much more slowly than distributions like Ubuntu or Linux Mint. This can make it more stable and conservative, which is ideal for some systems.
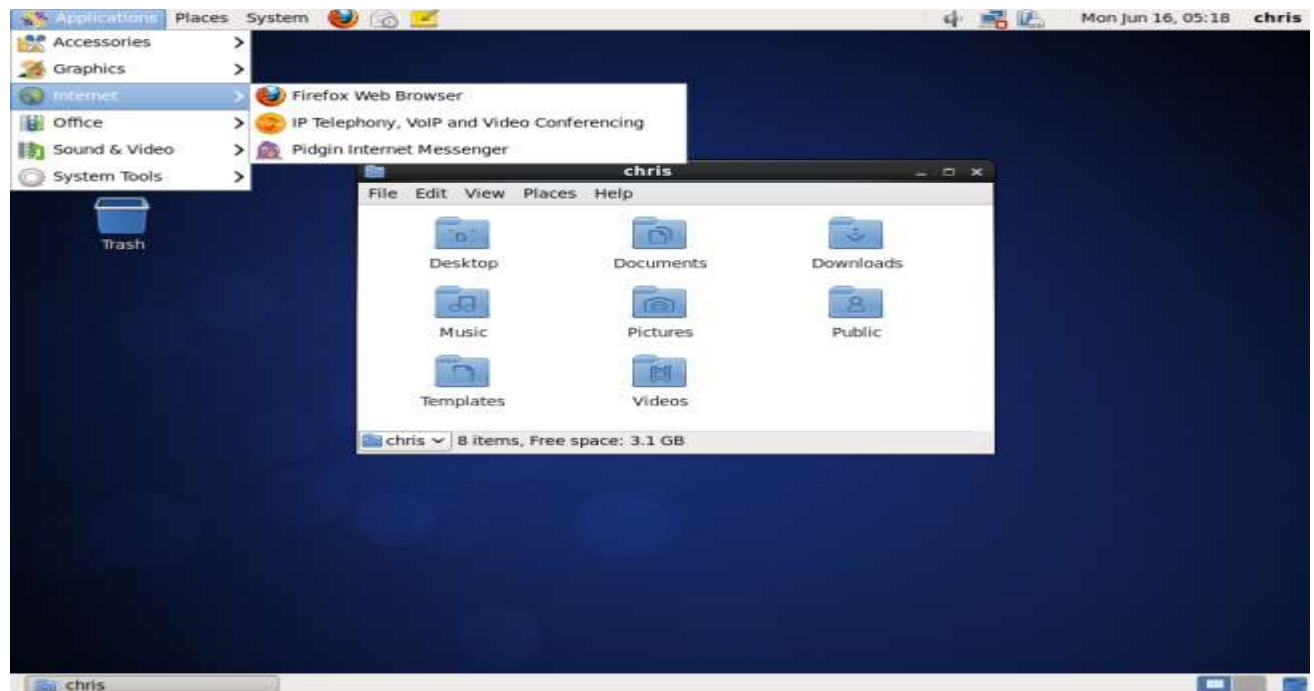
# Fedora

Fedora is a project with a strong focus on free software — we won't find an easy way to install proprietary graphics drivers here, although third-party repositories are available. contains the latest versions of software.Unlike Ubuntu, Fedora doesn't make its own desktop environment or other software. Instead, the Fedora project uses "upstream" software, providing a platform that integrates all this upstream software without adding their own custom tools or patching it too much. Fedora is sponsored by Red Hat, and is the foundation for the commercial Red Hat Enterprise Linux project.



# CentOS / Red Hat Enterprise Linux

Red Hat Enterprise Linux is a commercial Linux distribution intended for servers and workstations. It's based on the open-source Fedora project, but is designed to be a stable platform with long-term support.Red Hat uses trademark law to prevent their official Red Hat Enterprise Linux software from being redistributed. However, the core software is free and open-source. CentOS is a community project that takes the Red Hat Enterprise Linux code, removes all Red Hat's trademarks, and makes it available for free use and distribution. It's a free version of RHEL, CentOS and Red Hat recently announced they're collaborating, so CentOS is now part of Red Hat itself.

# Exercise :-

1-Explain different types of Linux Operating System.

2.-Write down the benefits of free operating system.