OPERATING SYSTEM (O.S.) LAB

SUBJECT CODE – BCSC 0803

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Linux

ABOUT LINUX ENVIRONMENT

Linux is an open-source operating system kernel that serves as the foundation for various distributions (distros) of the Linux operating system. It was initially created by Linus Torvalds in 1991 and has since evolved into a powerful and versatile platform used in a wide range of computing devices, from servers and desktop computers to embedded systems and smartphones.

Here's a brief introduction to Linux covering its key features, components, and usage:

Key Features of Linux:

1. **Open Source:** Linux is distributed under the GNU General Public License (GPL), which means its source code is freely available for anyone to view, modify, and distribute.
2. **Multitasking and Multiuser:** Linux supports multitasking, allowing multiple processes to run concurrently. It also supports multiple users accessing the system simultaneously with secure user permissions.

3. **Stability and Reliability:** Linux is known for its stability and reliability, often running for extended periods without needing to reboot. This makes it a popular choice for servers and critical systems.
4. **Security:** Linux provides robust security features, including user authentication, file permissions, and access controls, which contribute to its reputation for security.
5. **Flexibility:** Linux offers a high degree of flexibility and customization. Users can choose from various desktop environments, package managers, and software repositories to tailor their Linux experience to their preferences.
6. **Scalability:** Linux is highly scalable, capable of running on a wide range of devices, from small embedded systems to large supercomputers.

ABOUT WINDOWS

Windows is a family of operating systems developed by Microsoft Corporation, which has been a dominant force in the personal computer (PC) market for decades. Here's an introduction covering its key features, versions, and common use cases:

Key Features of Windows:

1. **Graphical User Interface (GUI):** Windows is known for its user-friendly GUI, featuring a desktop environment with icons, windows, and menus, making it easy for users to navigate and interact with their computers.
2. **Multitasking and Multiuser:** Like Linux, Windows supports multitasking, allowing multiple programs to run simultaneously. It also supports

multiple user accounts with customizable permissions.

3. **Compatibility:** Windows is compatible with a vast array of hardware devices, software applications, and peripherals, making it suitable for a wide range of use cases and environments.
4. **Security:** Windows includes built-in security features such as Windows Defender antivirus software, Windows Firewall, and User Account Control (UAC) to help protect against malware, viruses, and unauthorized access.
5. **Integration:** Windows seamlessly integrates with other Microsoft products and services, such as Office productivity suite, OneDrive cloud storage, and Azure cloud computing platform, providing a cohesive ecosystem for users and businesses.
6. **Updates and Support:** Microsoft regularly releases updates, patches, and new versions of Windows to improve performance, security, and compatibility. Users can receive support through Microsoft's online resources, community forums, and customer service channels.

Introduction To Cocalc..

CoCalc is a virtual online workspace for calculations, research, collaboration and authoring documents. Your web browser is all you need to escape the confined space of your desktop and move to the cloud. This guide explains the features of CoCalc in depth and shows how you can use them productively.

The main building blocks for working on CoCalc are Projects. Create one or more projects in order to partition your work into separate *workspaces*. Each project consists of files, accessible only to you and your collaborators.

You and your collaborators can *edit these files at the same time*, which means your changes are synchronized among all of you in real-time! Depending on the type of the file, it allows you to accomplish a specific task. They open up in their associated online editor and you start to work interactively in CoCalc's environment. For example, files ending in `*.sagews` are for working with [SageMath] in Sage Worksheets, an `*.ipynb` file starts CoCalc's implementations of

the Jupyter Notebook, and a `*.tex` file opens an editor for LaTeX documents

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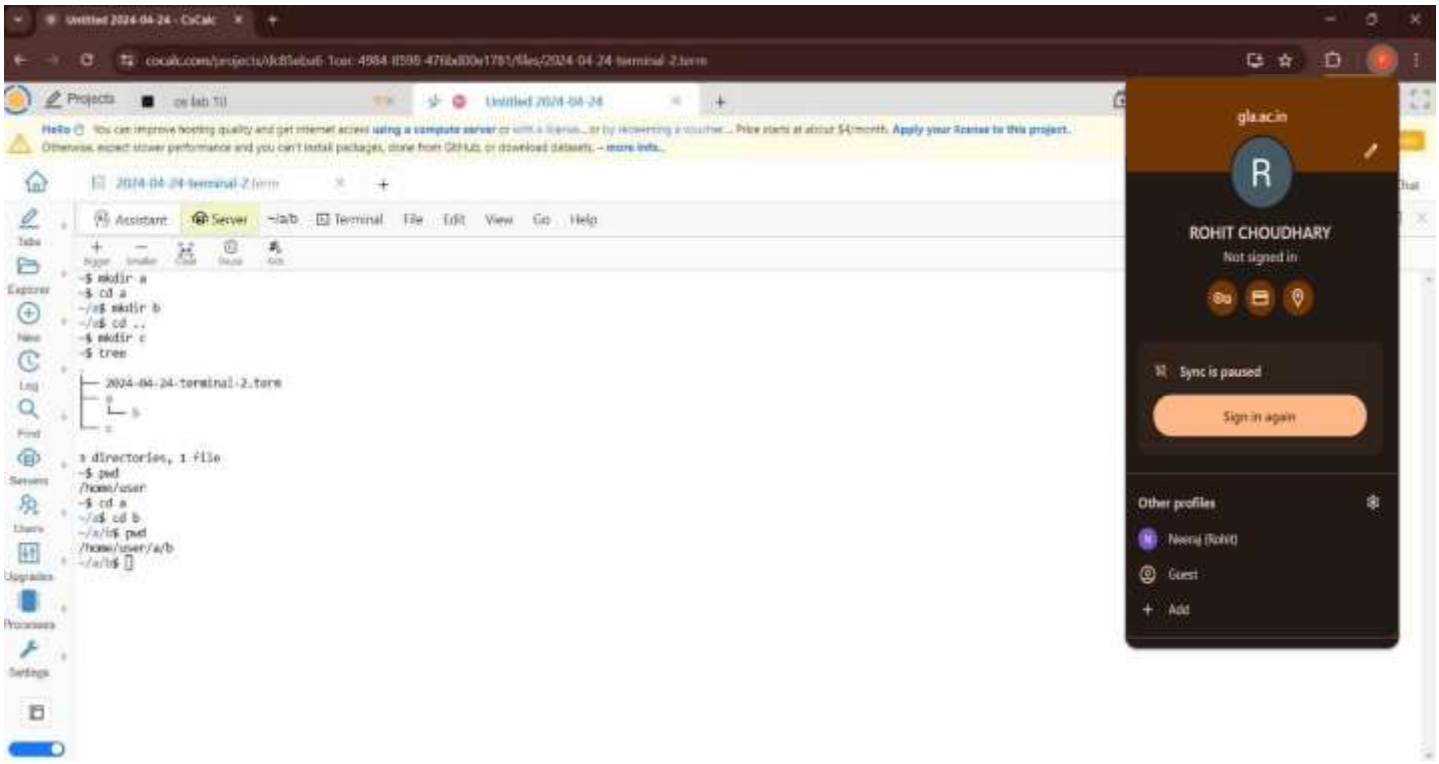
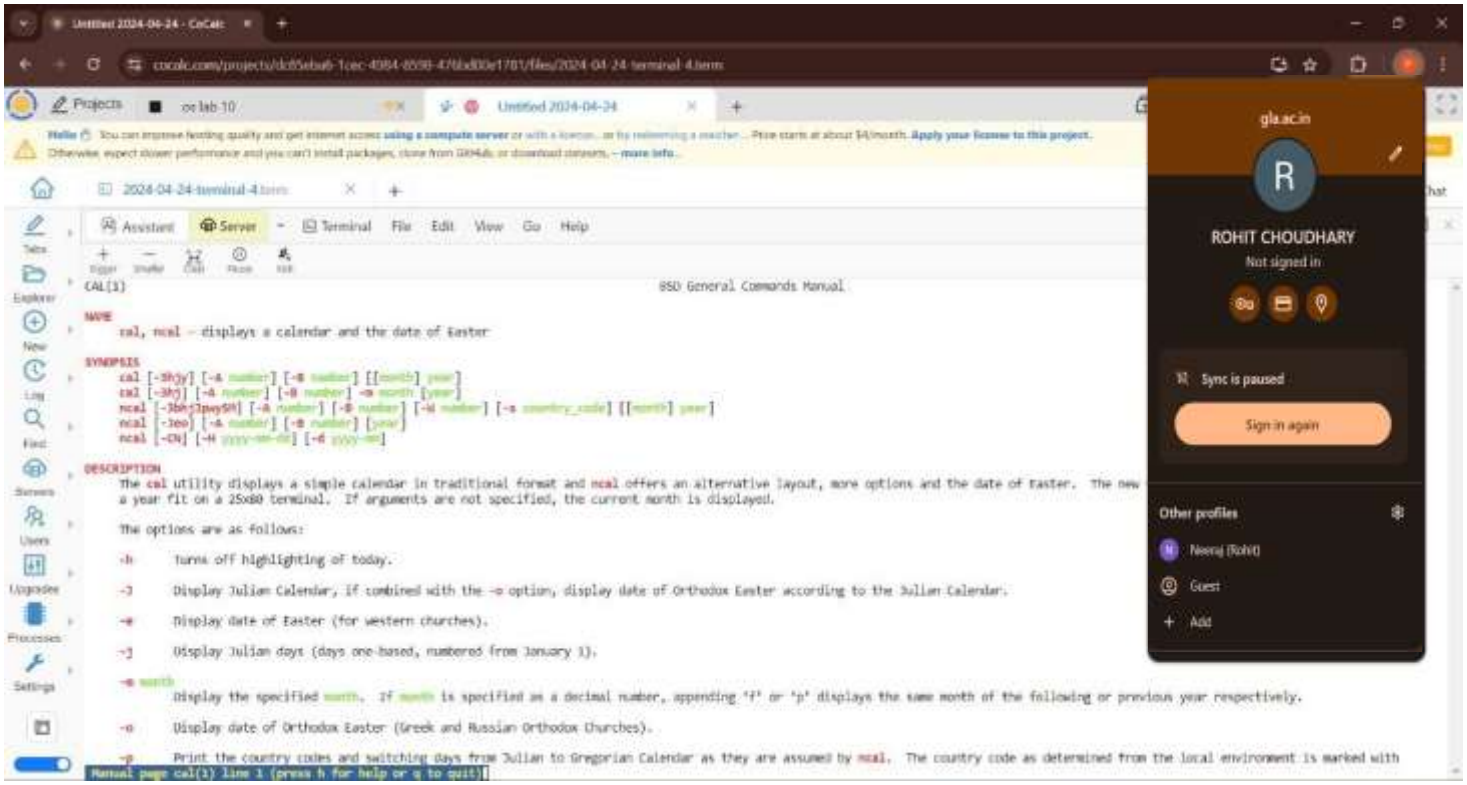
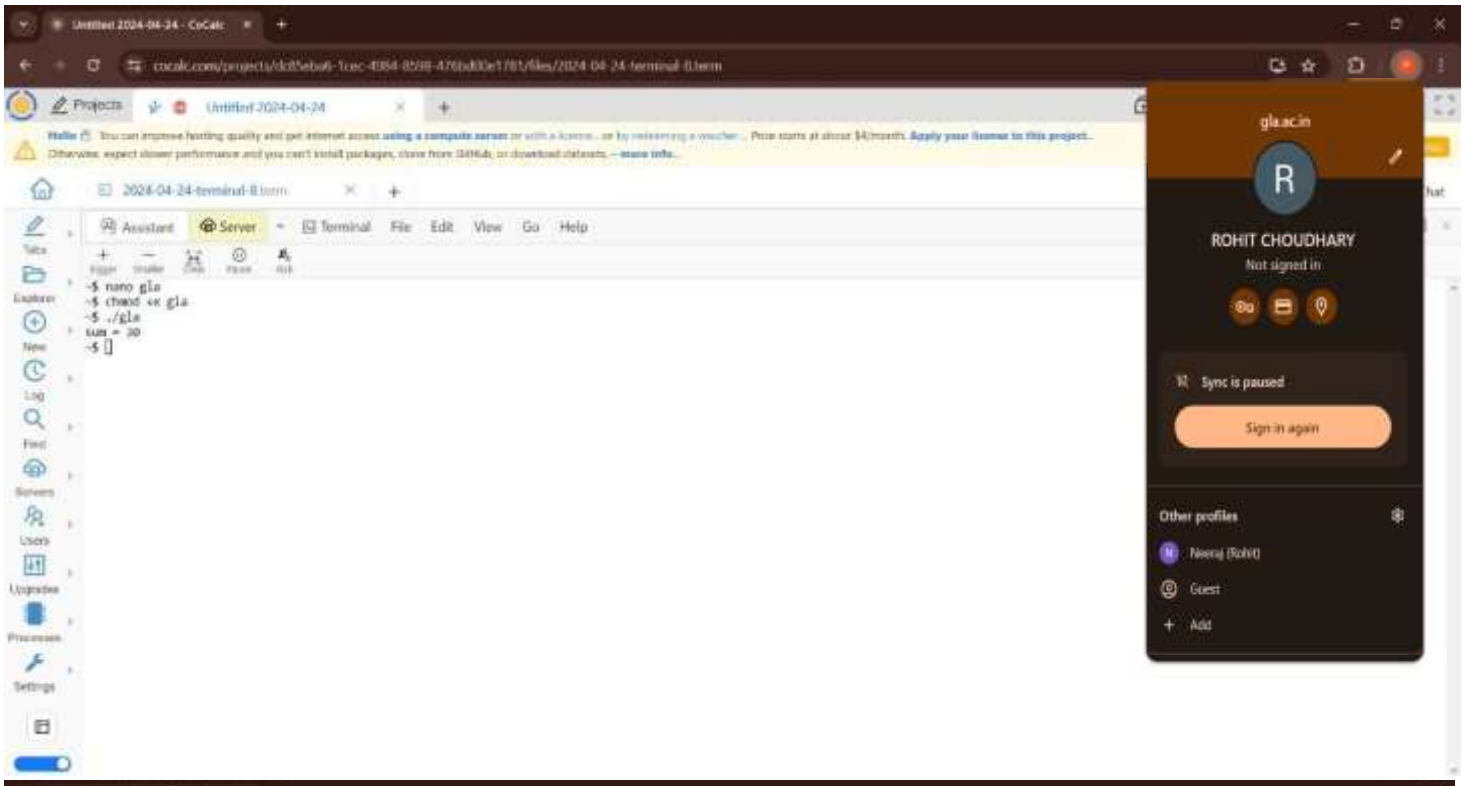
Directory commands

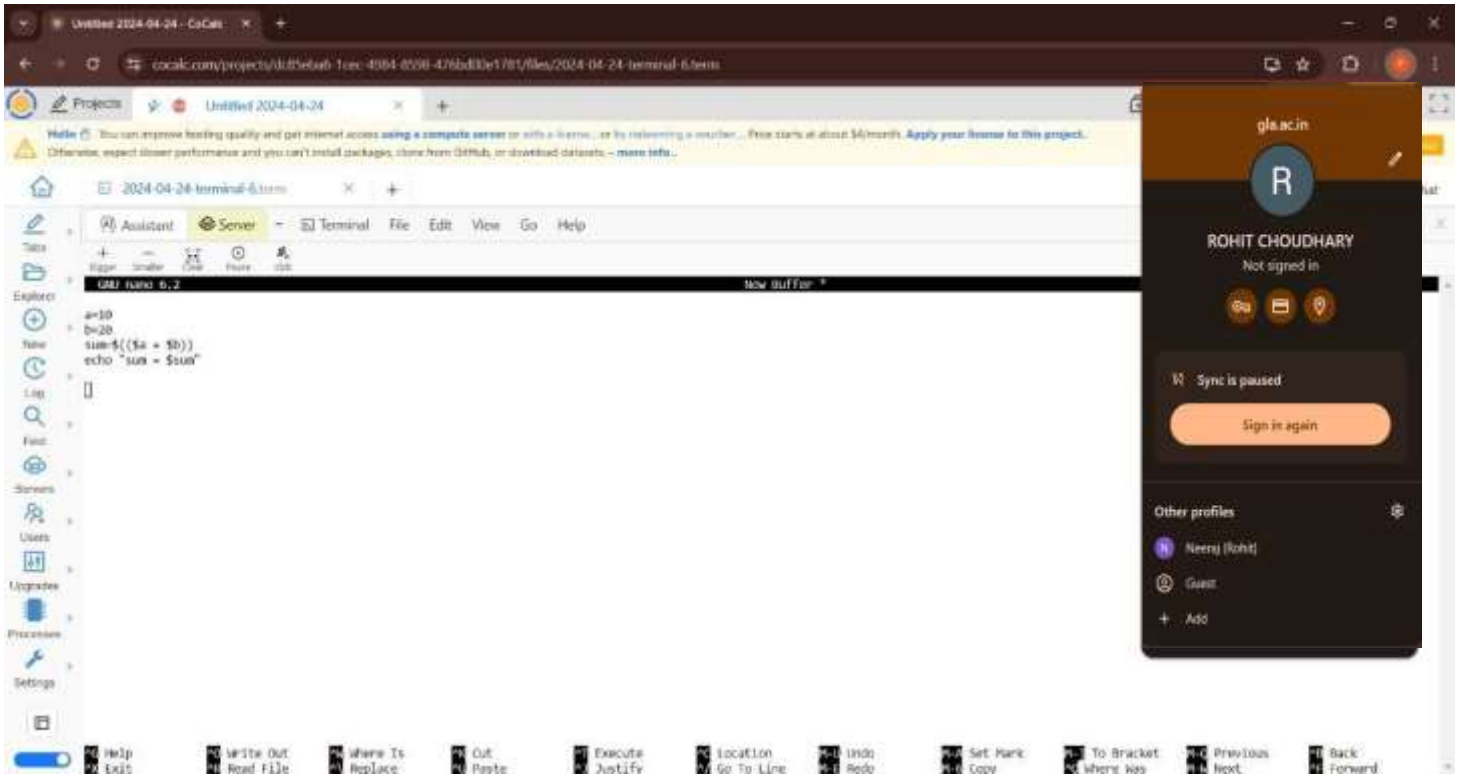


man command

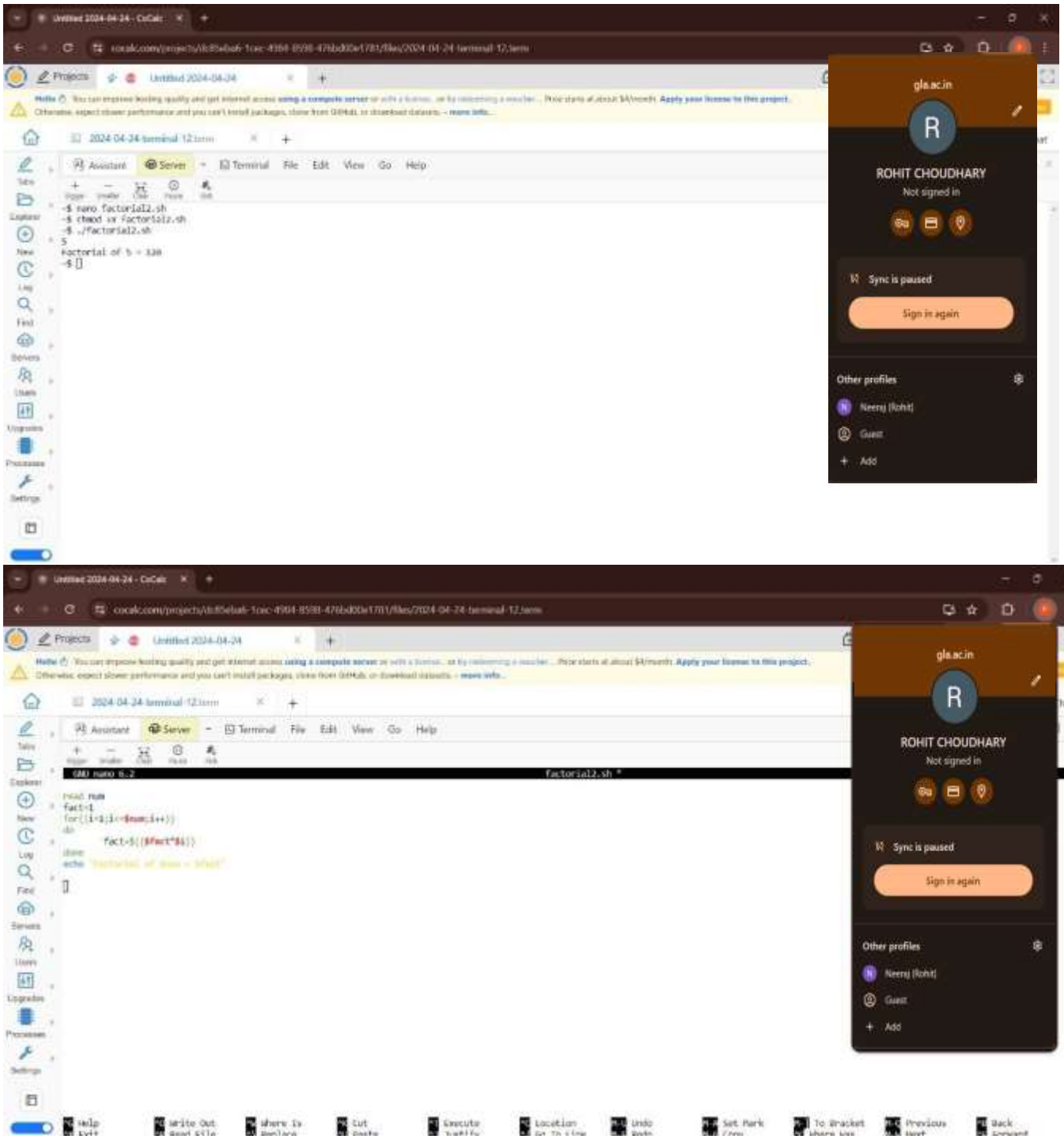

gla.ac.in
R
ROHIT CHOUDHARY
Not signed in
Sync is paused
Sign in again
Other profiles
Neeraj (Rohit)
Guest
Add
CAL(1) BSD General Commands Manual
NAME
cal, ncal – displays a calendar and the date of Easter
SYNOPSIS
DESCRIPTION
The cal utility displays a simple calendar in traditional format and ncal offers an alternative layout, more options and the date of Easter. The new
a year fit on a 25x80 terminal. If arguments are not specified, the current month is displayed.
The options are as follows:
-h turns off highlighting of today.
-j Display Julian Calendar, if combined with the -o option, display date of Orthodox Easter according to the Julian Calendar.
-e Display date of Easter (for western churches).
-j Display Julian days (days one-based, numbered from January 1).
-o Display date of Orthodox Easter (Greek and Russian Orthodox Churches).
Manual page cal(1) line 1 (press h for help or q to quit)

Program to calculate sum

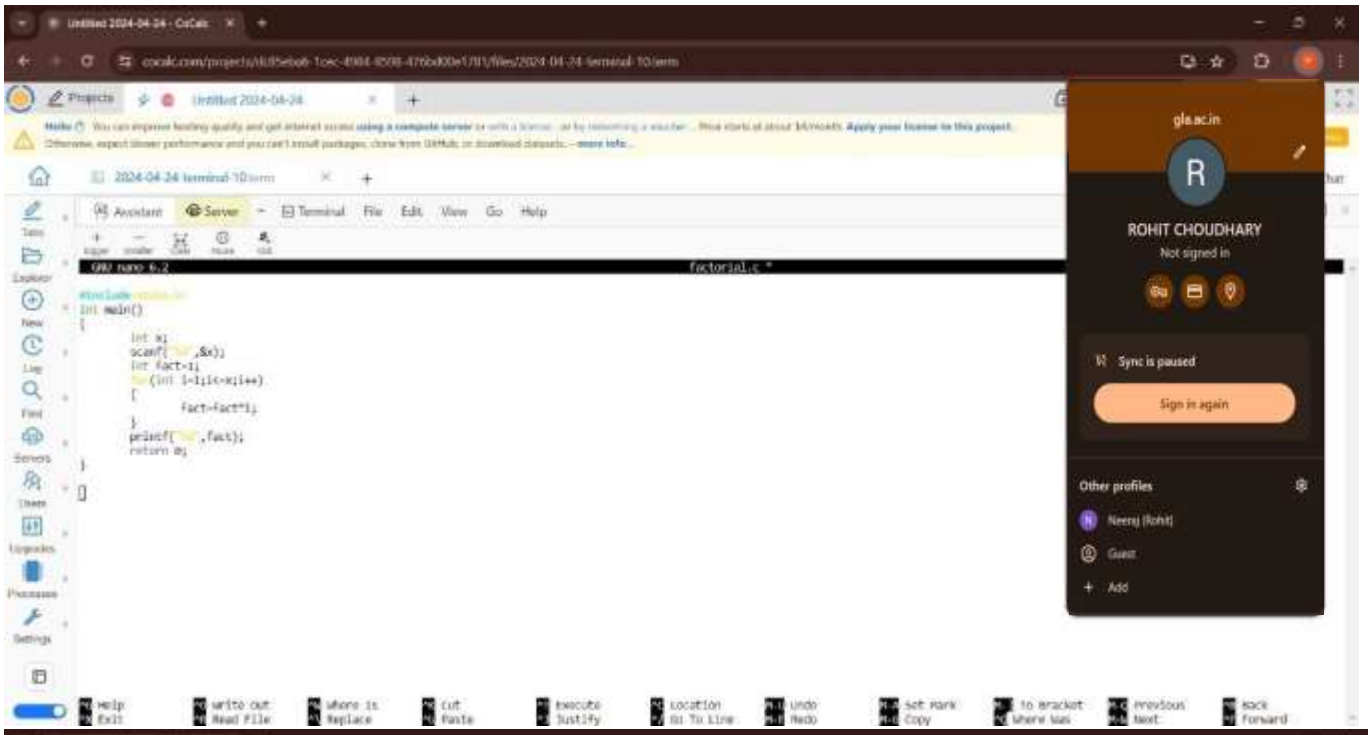


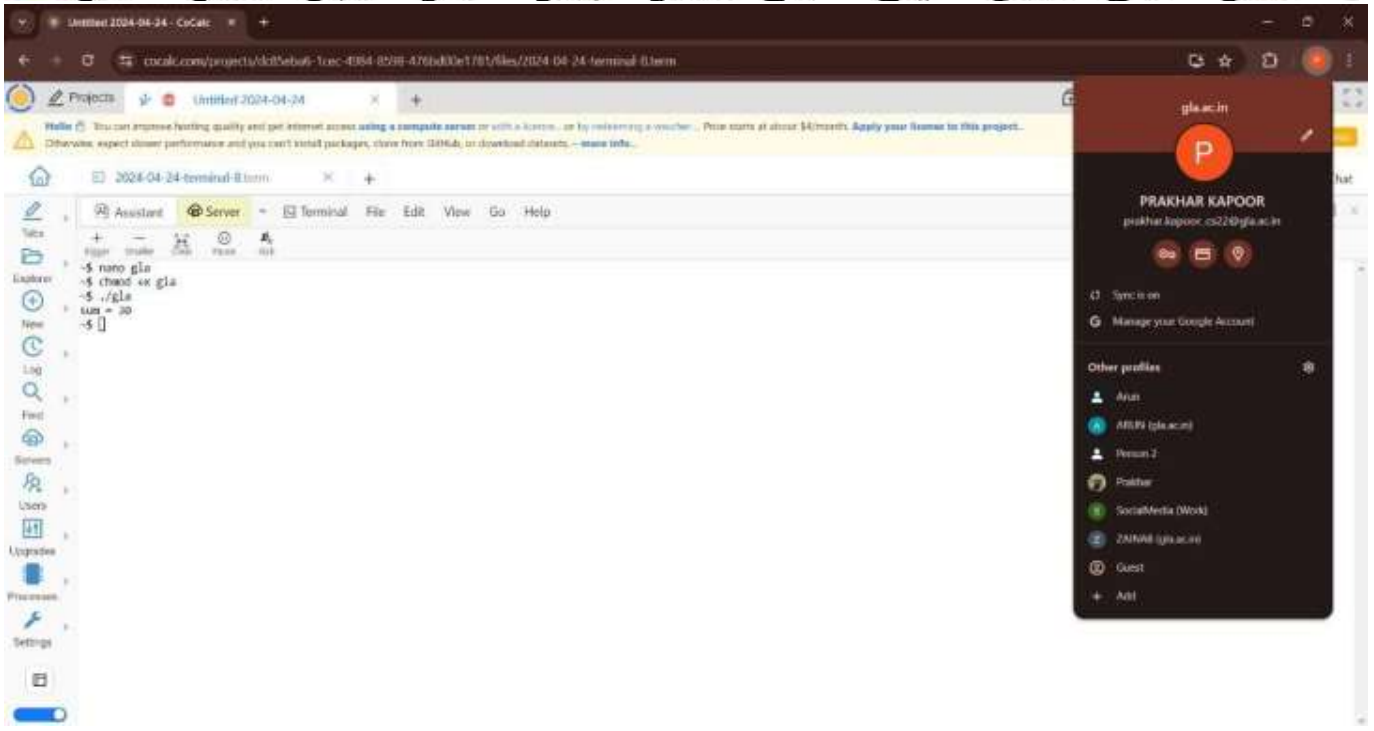


Program to calculate factorial using shell script

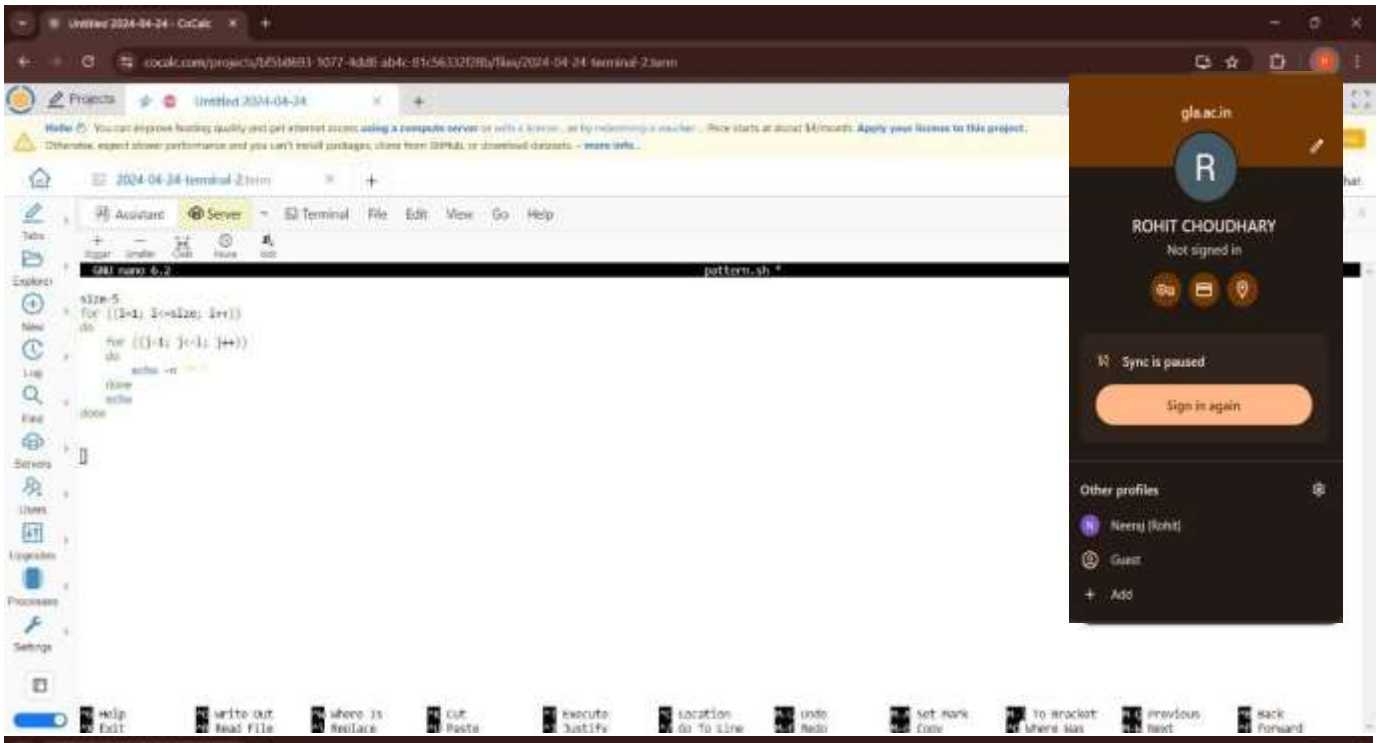


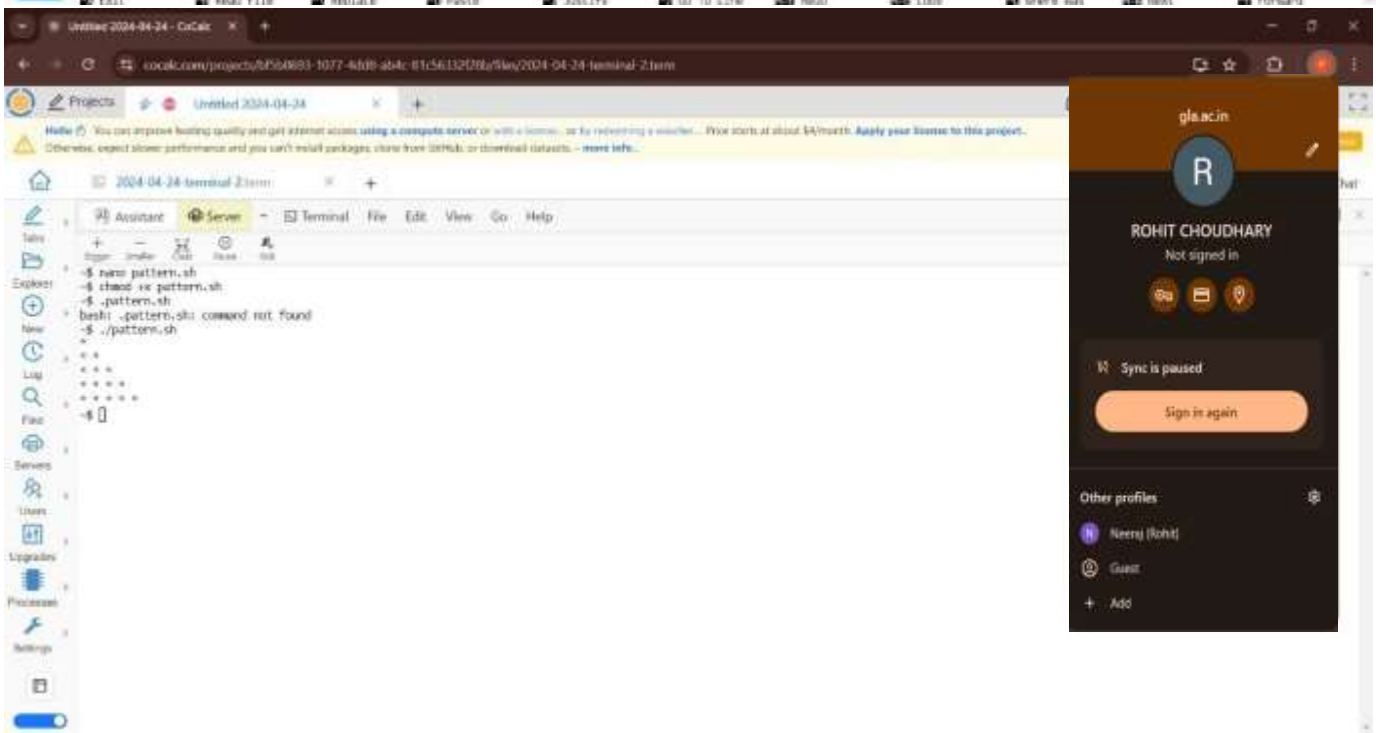
Program to calculate factorial using C language



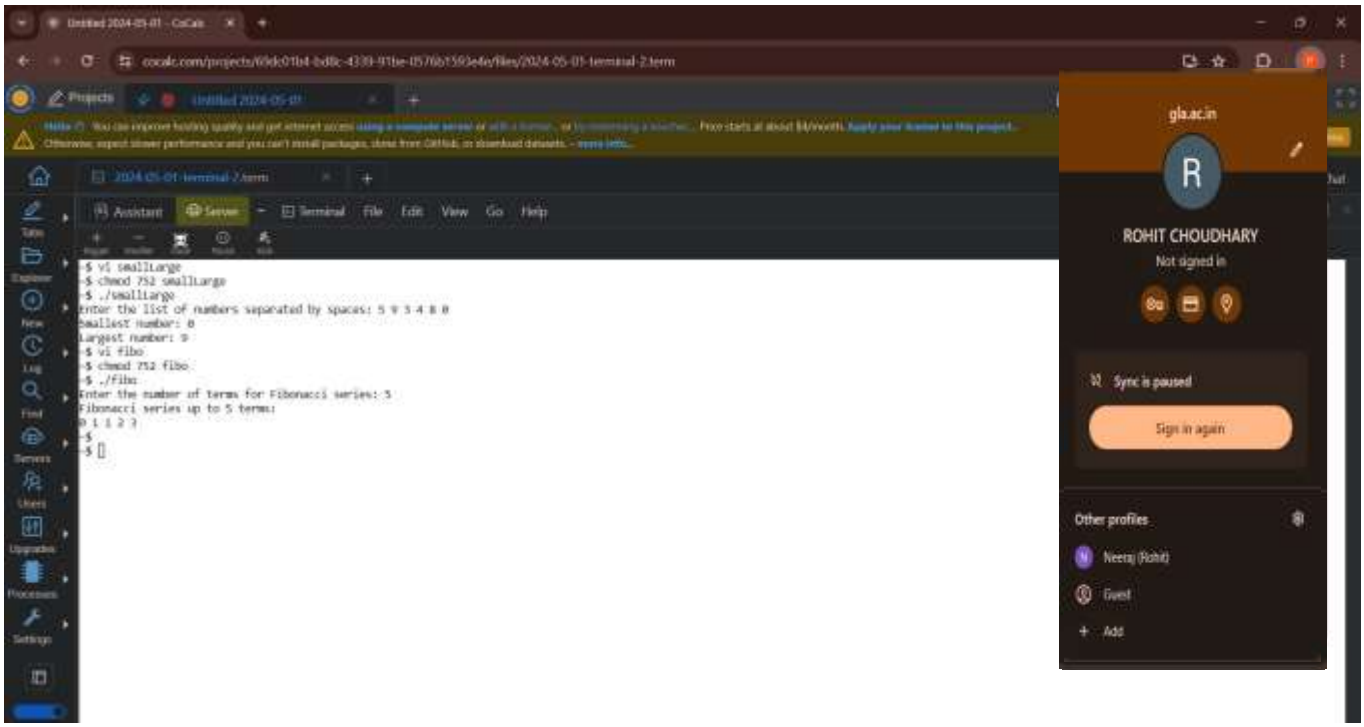


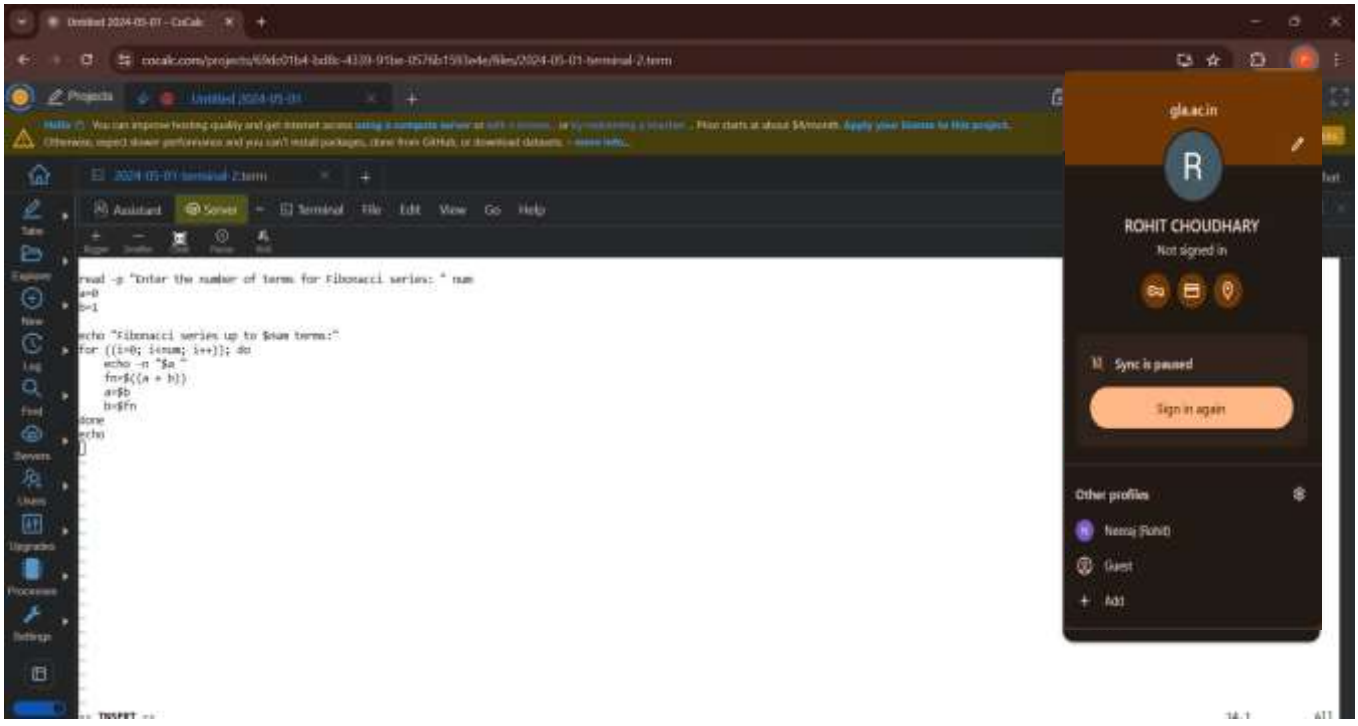
Program to print triangle pattern



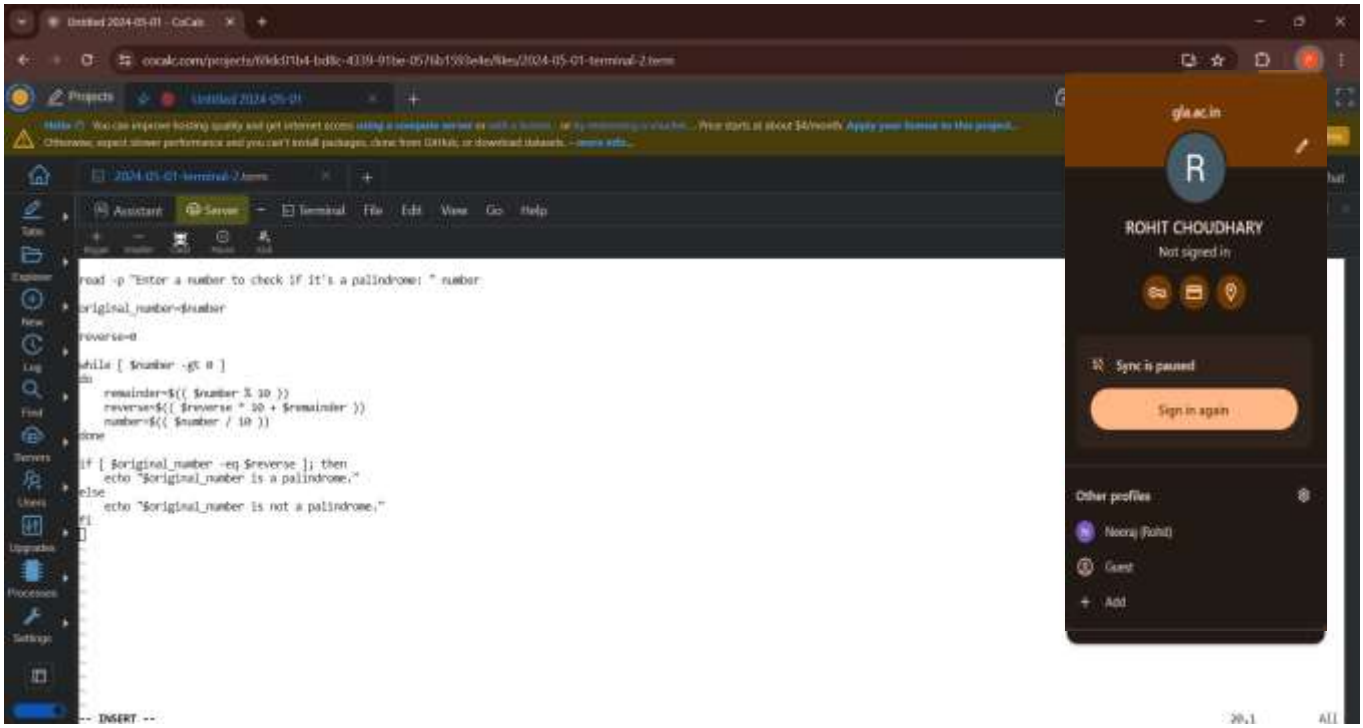


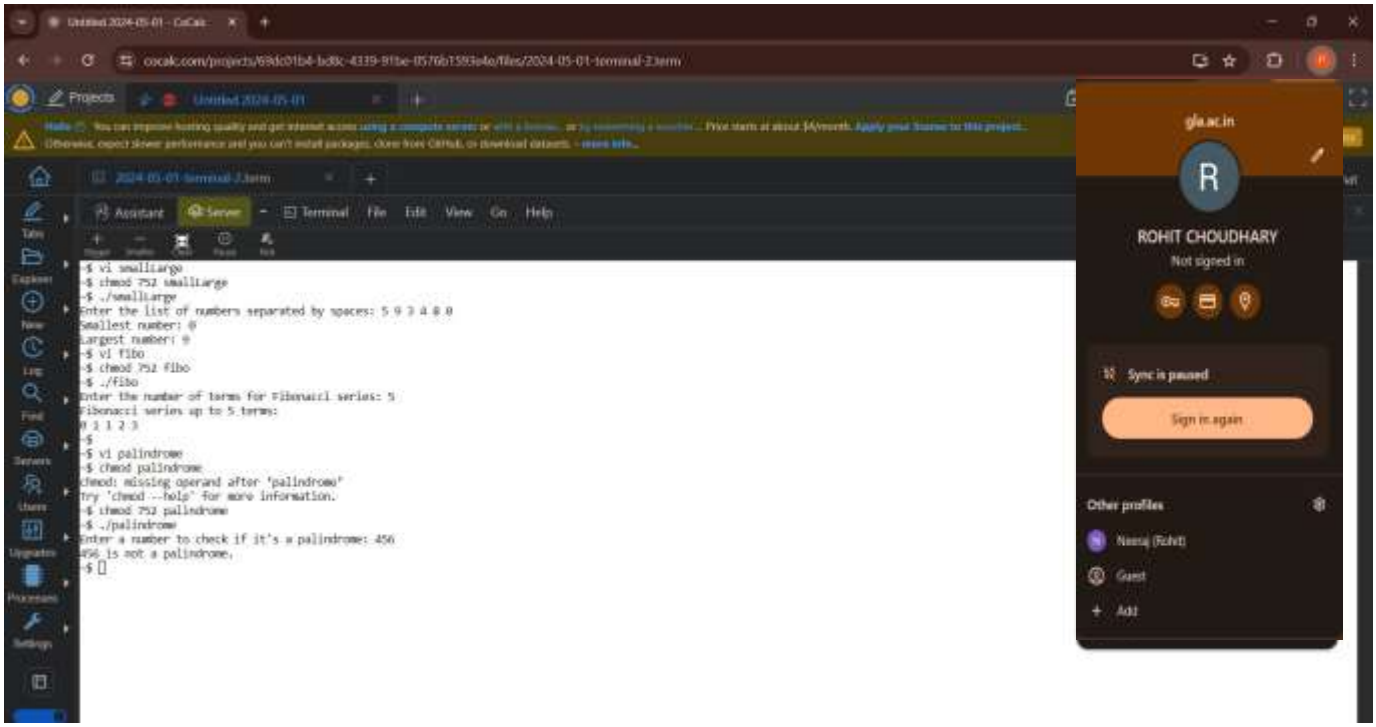
Print Fibonacci series



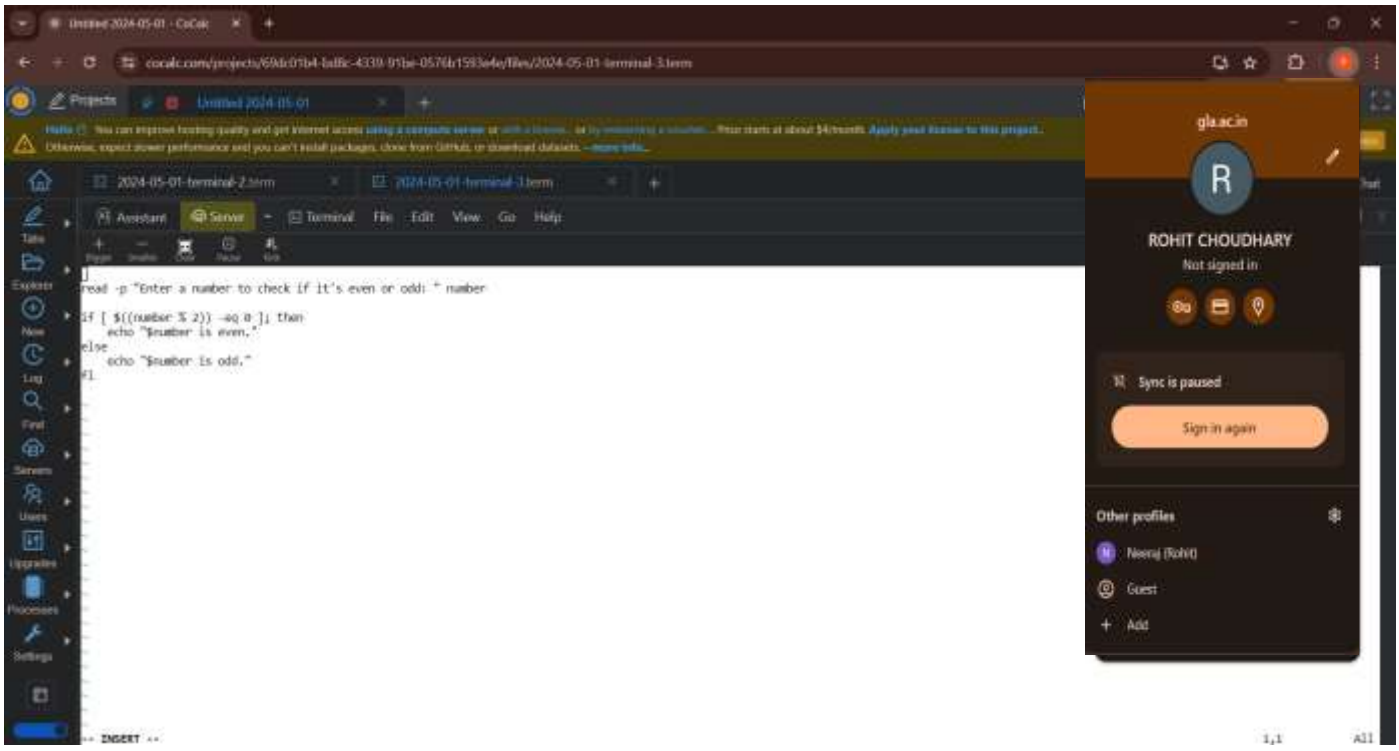


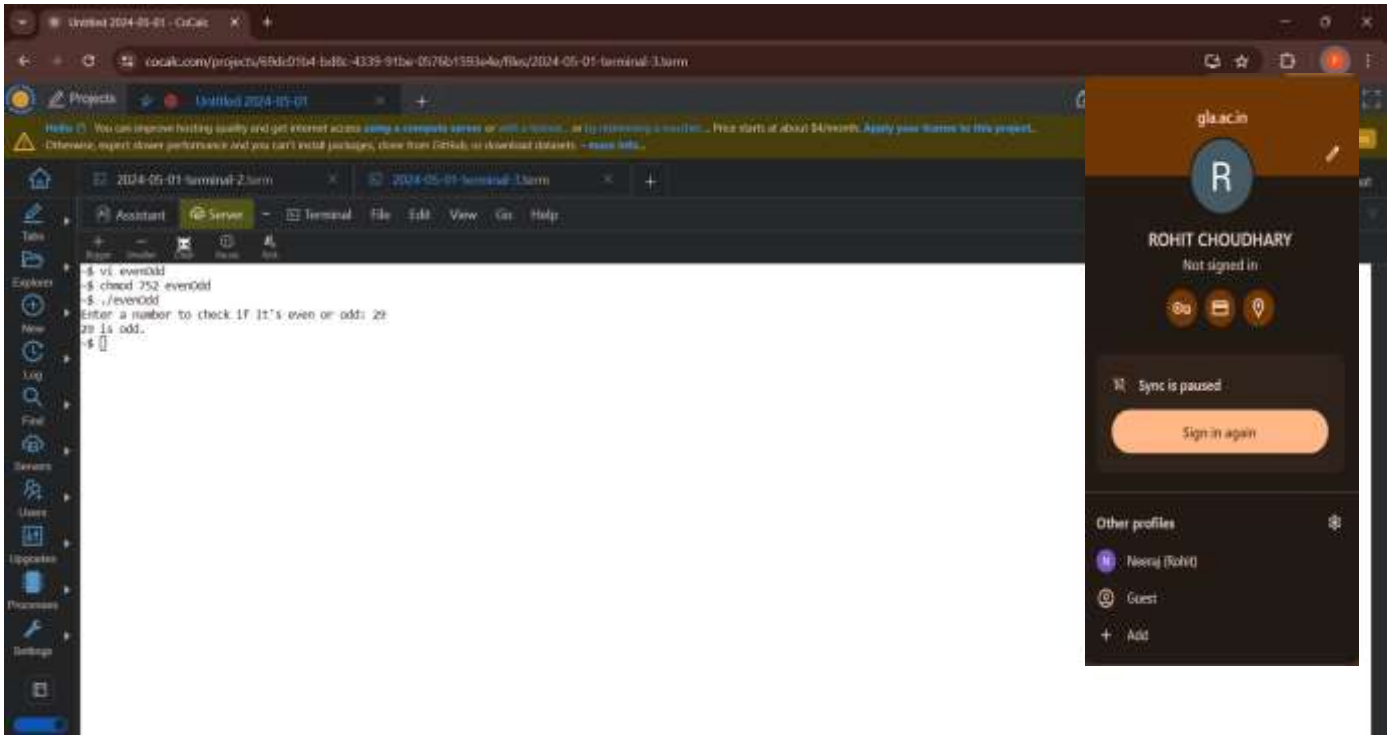
Program to check Palindrome number



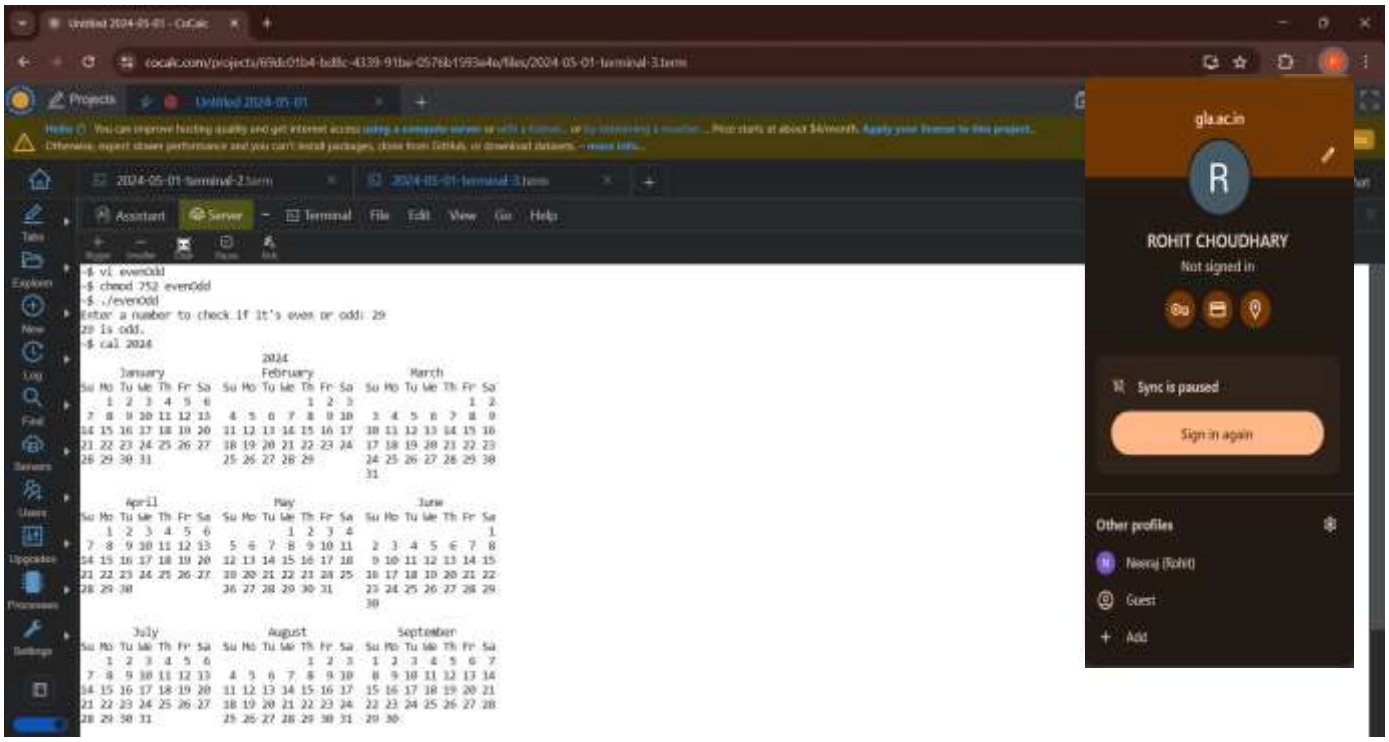


Program to check even or odd





To print calendar of 2024



Program to check if a year is leap or not