Pre-requisites for the Session on Git and GitLab

1 Install Git on your system

Purpose: Git is a version control system that allows you to track changes in your files and collaborate with others. It's essential for managing code and project versions in software development.

    Action: Visit the official Git website: https://git-scm.com/downloads. Here, you'll find download links for various operating systems (Windows, macOS, Linux).

    Detailed Steps:

1. **Windows**:

   - Click on the link for Windows, and an installer file will download.
   - Run the installer and follow the on-screen instructions.
   - Accept the license agreement.
   - Choose your installation options (usually, the default options are fine).
   - Finish the installation.

2. **macOS**:

   - You can install Git using Homebrew, a package manager for macOS. Open the Terminal and run the command: `brew install git`.
   - Alternatively, download the macOS installer from the Git website and follow the instructions.

3. **Linux**:

   - Open your terminal.
   - For Debian-based distributions (like Ubuntu), run: `sudo apt-get install git`.
   - For Red Hat-based distributions, run: `sudo yum install git`.

2 During custom installation of Git, check the box to install Git Bash

Purpose: Git Bash provides a bash emulation used to run Git from the command line on Windows. This offers a more robust environment for Git commands compared to the standard Command Prompt.

Action: When installing Git on Windows, you will reach a step where you can choose components to install. Here, you should see an option to install Git Bash.

Detailed Steps:

1. Run the Git installer.

2. When prompted for the "Select Components" step, look for the option labeled "Git Bash Here" or similar.

3. Make sure this option is checked. It may be checked by default, but it's good to confirm.

4. Continue with the installation by following the remaining prompts.

3 Create an account on GitLab

Purpose: GitLab is a web-based DevOps lifecycle tool that provides a Git repository manager. It allows you to manage your repositories, collaborate with others, and use continuous integration and delivery features.

Action: Visit the GitLab signup page: https://gitlab.com/users/sign_up. Here, you can create a new GitLab account.

Detailed Steps:

1. Go to the GitLab signup page.

2. Fill in your details:

   - **Username**: Choose a unique username.
   - **Email**: Enter your email address.
   - **Password**: Choose a strong password.

3. Solve the CAPTCHA if prompted.

4. Click the "Register" button.

5. Verify your email address by clicking the verification link sent to your email.