1. How to check if git is available on your system

Sol-2 Open Command Prompt (cmd) or PowerShell.

Type the following command and press

git --version

If Git is installed, you will see output like:

git version 2.39.1. windows.1

[2] If Git is not installed, you will see an error message like:

'git' is not recognized as an internal or external command...

2. How to initialize a new Git repository?

Sol-

1. Open your terminal or command prompt

Navigate to the directory where you want to create the Git repository.

cd /path/to/your/project

2. Initialize the Git repository

Run the following command to create a new Git repository in that directory:

git init

This will create a hidden. git folder that tracks your project's version history.

3. How to tell git about your name and email?

Sol-

1. Set your name

git config --global user.name "Your Name"

2. Set your email

git config --global user. email "your.email@example.com"

3. Verify your settings

Check if your name and email are set correctly:

git config --global --list

This will display something like:

git config user.name "Your Name"

git config user. email "your.email@example.com"

4. How to add a file to the staging area

Sol-

1. Add a specific file

git add filename.txt

This stages filename.txt for the next commit.

2. Add multiple files

git add file1.txt file2.txt

3. Add all files in the directory

git add.

This stages all modified and new files in the current directory.

5. How to remove a file from the staging area

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1. Unstage a specific file

git reset filename.txt

This removes filename.txt from the staging area but keeps the file unchanged in your working directory.

2. Unstage all files

git reset

This removes all staged files, but they remain unchanged in the working directory.

3. Check the status

git status

6. How to make a commit

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1. Add files to the staging area

Before committing, you need to stage the files:

7. How to send your changes to a remote repository

Sol- To send (push) your changes to a remote repository, follow these steps:

1. Ensure you're on the correct branch

git branch

If needed, switch branches

git checkout main # Or your preferred branch

2. Add and commit your changes

git add.

git commit -m "Your commit message"

3. Push changes to the remote repository

If your remote repository is already set up

git push origin main # Replace 'main' with your branch name

4. If the remote is not set up yet

First, add the remote URL:

git remote add origin https://github.com/your-username/your-repo.git

Then push the changes:

git push -u origin main

git add filename.txt # Add a specific file

git add. # Add all changes in the directory

2. Commit the changes

Use the git commit command with a message describing the changes:

git commit -m "Your commit message here"

3. Verify the commit

Check your commit history using

git log -online

7. What is the difference between clone and pull?

Sol-

Both git clone and git pull are used to interact with a remote repository, but they serve different purposes:

Command Purpose		When to Use
git clone	Copies an entire remote repository to your local machine	When you want to download a fresh copy of a repository for the first time
git pull	Updates your local repository with the latest changes from the remote	When you already have a local repository and want to sync it with the latest changes