# What is repository in GIT?

A Git repository tracks and saves the history of all changes made to the files in a Git project. It saves this data in a directory called . Git also known as the repository folder. Git uses a version control system to track all changes made to the project and save them in the repository. Repositories in  Git contain a collection of files of various different versions of a Project. These files are imported from the repository into the local server of the user for further updations and modifications in the content of the file.

# What is Git?

Git is a version control system used for tracking changes in computer files. It is generally used for source code management in software development. Git is used to tracking changes in the source code. The distributed version control tool is used for source code management.

# what is the command you can use to write a commit message?

The easiest way to create a Git commit with a message is to execute “git commit” with the “-m” option followed by your commit message.

# what are the advantage of using GIT?

1. **Performance**— Git is a strong and reliable platform in comparison with other versions of the control system.
2. **Security**— The main purpose of Git is to manage the integrity of source code.
3. **Flexibility**— The key design goal of Git is to acquire the kind of flexibility which offers support of different types of non-linear workflows development and its efficiency in handling small and large both projects and its protocols as well.

**4.Wide Acceptance**— Git renders performance types, security, flexibility, and

functionality as most of developing teams require these aspects to develop

their projects.

# what is the function of ‘GIT PUSH ’ in GIT?

The git push command is used to upload local repository content to a remote repository

# What is “Staging Area” or “INDEX” in GIT?

The staging area is just a list, or index, that says which files will be committed when a git commit is done, and now the name index is more commonly known as the "staging area.

# what is the function of git clone?

The git clone is a command-line utility which is used to make a local copy of a remote repository. It accesses the repository through a remote URL.

# what is the function of ‘git config’?

The git config command is a convenience function that is used to set Git configuration values on a global or local project level. These configuration levels correspond to . gitconfig text files.

# what is the purpose of branching in git?

In Git, branches are a part of your everyday development process. Git branches are effectively a pointer to a snapshot of your changes. When you want to add a new feature or fix a bug—no matter how big or how small—you spawn a new branch to encapsulate your changes.

# what is ‘git status ’ is used for?

The git status command displays the state of the working directory and the staging area. It lets you see which changes have been staged, which haven’t, and which files aren’t being tracked by Git.

1. **what is ‘git add’ is used for?**

Git add-The git add command adds a change in the working directory to the staging area. It tells Git that you want to include updates to a particular file in the next commit.

# what does ‘git pull’ command in GIT do Internally?

The git pull command is used to fetch and download content from a remote repository and immediately update the local repository to match that content. Merging remote upstream changes into your local repository is a common task in Git-based collaboration work flows.

1. **How can we see the configuration setting of git installation?**

If you want to check your configuration settings, you can use the git config --list command to list all the settings . Git can find at that point: $ git config --list user.name=Prerana user.

# How will you Write a message with commit command in GIT?

The most common option used with git commit is the -m option. The -m stands for message. When calling git commit, it is required to include a message.

# How you will create a new branch in git?

The easiest way to create a Git branch is to use the “git checkout” command with the “-b” option for a new branch. Next, you just have to specify the name for the branch you want to create. To achieve that, you will run the “git

checkout” command with the “-b” option and add “feature” as the branch

name.

# What command you will use to delete a Branch?

Delete a branch with git branch -d <branch>.

# what is use of git rm Command in git?

Git rm is used to removes a file from a Git repository.

# Difference between git and github?

**GIT GITHUB**

1. Git is software 1.Github is a service
2. Git is a command-line tool 2.Github is a graphical user Interface
3. Git was first released in 2005. 3. GitHub was launched in 2008.
4. Git is maintained by linux. 4.Github is maintainedby Microsoft.
5. Git provides a Desktop interface named Git Gui.

5. GitHub provides a Desktop interface named GitHub Desktop.

# GIT written in which language?

Git written in Python,C,C++, Perl, Tcl.

# What is a ‘Conflict’ in Git?

A conflict arises when two separate branches have made edits to the same line in a file, or when a file has been deleted in one branch but edited in the other.