

Assignment 3

# GIT & GITHUB

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## Assignment 3

### Git and GitHub Assignment:

#### PART A - Short Answer Questions

##### 1. What is Git?

Answer: Git is a tool that helps track changes in files and projects. It is mainly used for programming and version control.

##### 2. Why do we use Git?

Answer: We use Git to save different versions of our work, collaborate with others, and easily go back to older versions if needed.

##### 3. What is a Version Control System (VCS)?

Answer: A VCS is software that helps manage changes to code or documents over time. It keeps a record of every update.

Example : GitHub and more....

##### 4. What command is used to check the Git version?

Answer:

```
● zoro~$git -v  
    git version 2.51.2  
○ zoro~$
```

##### 5. What is a repository in Git?

Answer: A repository (repo) is a folder where Git tracks all your project files and their history.

##### 6. What command is used to create a new Git repository?

Answer:

```
● zoro~$git init  
    Reinitialized existing Git repository in /Users/zoro/Developer/Git-and-Github/.git/  
○ zoro~$
```

##### 7. What is the .git folder used for?

Answer: The .git folder stores all the information about your repository — like commits, branches, and settings.

##### 8. What command is used to check Git configuration details?

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Answer:

```
Reinitialized existing Git repository in /Users/zoro/Developer/Git-and-Github/.git/
● zoro~$git config --list

credential.helper=osxkeychain
user.name=sasanka
user.email=sasankasekharkundu24@gmail.com
core.editor=code --wait
init.defaultbranch=main
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/Sasanka14/Git-and-Github.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
branch.main.vscode-merge-base=origin/main
branch.bug-fix.github-pr-base-branch=Sasanka14#Git-and-Github#main
branch.bug-fix.vscode-merge-base=origin/main
branch.bug-fix.github-pr-base-branch=Sasanka14#Git-and-Github#main
○ zoro~$
```

9. Write the command to set your username in Git.

Answer:

```
● zoro~$git config --global user.name "sasanka"
○ zoro~$git config --global user.name "Your Name"
```

10. Write the command to set your email ID in Git.

Answer:

```
● zoro~$git config --global user.email "sasankasekharkundu24@gmail.com"
○ zoro~$git config --global user.email "your.email@example.com"
```

## PART B - Fill in the Blanks

1. Git is a **version** control system.
2. The command 'git init' is used to **create/initialize** a repository.
3. To check the installed version of Git, we use **git --version**.
4. The command 'git config --global user.name' is used to set your **username**.
5. The folder '.git' is **hidden** by default.

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### PART C - Hands-on Practice

Perform these steps in Terminal (Mac) or Command Prompt (Windows)

1. Create a new folder named myproject

```
Last login: Wed Nov 12 11:39:35 on ttys018
|zoro$ls
Applications      Developer      Downloads      Movies       Pictures
Desktop          Documents      Library       Music        Public
|zoro$cd Developer
|zoro$ls
AI Agents Intensive Course with Google  Projects
C Programming           Python
Client                  Research
Git-and-Github          Scratch-Programming
Java                   Soft-Skill
No-code Platfrom        Web-development
OS
|zoro$cd "Git-and-Github"
zoro$|
```

2. Initialize Git in this folder

```
|zoro$cd "Git-and-Github"
|zoro$pwd
/Users/zoro/Developer/Git-and-Github
|zoro$git init
Reinitialized existing Git repository in /Users/zoro/Developer/Git-and-Github/.git/
|zoro$|
```

3. Configure your Git username and email

```
|zoro$git config --global user.name "sasanka"
|zoro$git config --global user.email "sasankasekharkundu24@gmail.com"
zoro$|
```

4. Check your Git configuration

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```
|zoro~$git config --global user.name "sasanka"
|zoro~$git config --global user.email "sasankasekharkundu24@gmail.com"
|zoro~$git config --list
credential.helper=osxkeychain
user.name=sasanka
user.email=sasankasekharkundu24@gmail.com
core.editor=code --wait
init.defaultbranch=main
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/Sasanka14/Git-and-Github.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
branch.main.vscode-merge-base=origin/main
branch.bug-fix.github-pr-base-branch=Sasanka14#Git-and-Github#main
branch.bug-fix.vscode-merge-base=origin/main
branch.bug-fix.github-pr-base-branch=Sasanka14#Git-and-Github#main
zoro~$|
```

5. List all files (including hidden ones)

```
|zoro~$ls -a
.          .DS_Store      .gitignore    Lecture
..         .git           Assignment   README.md
zoro~$|
```