Subject Name: Source Code Management

Subject Code: CS181

Cluster: **BETA** 

Department: DCSE



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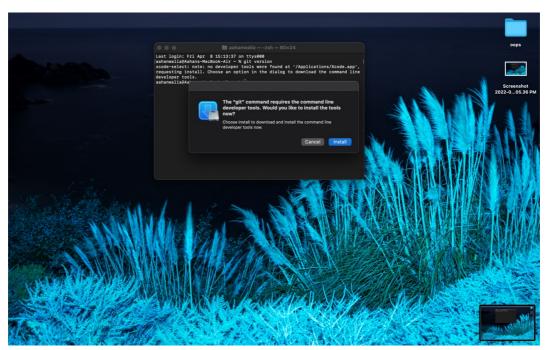
## **Aim: setting up Git Client**

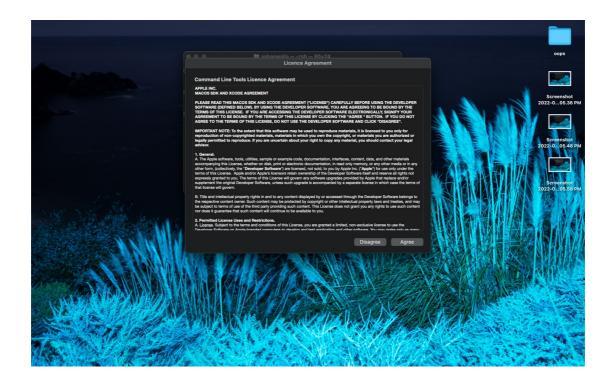
Steps to Install Git on mac

1. Open terminal in mac and type git.



2. Add install the software.







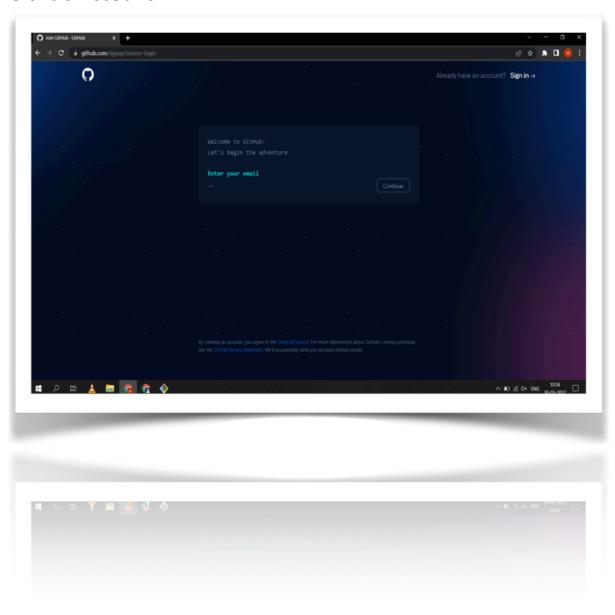
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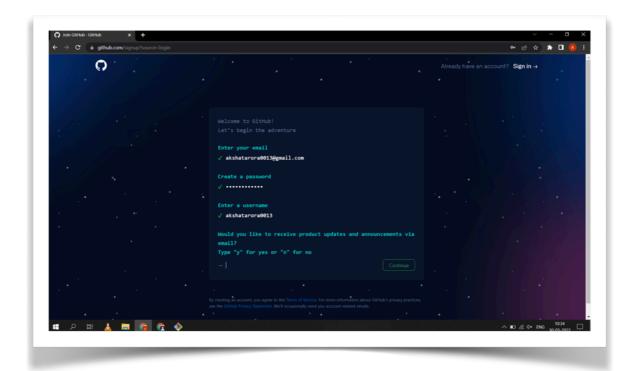




## **Aim: Setting up Git account**

- 1. Go to github.com and click on signup option at the top right corner of the screen
- 2. Follow up the instructions popping up on screen to create your GitHub Account





## **How to Set Up Default Credentials for Git Config?**

Set user's UserName in Git Config

The first change that we will be making inside our config file will be changing our username in Git. To change our username, follow these steps.

Open Git Bash in your system. Type the following command with your username: git config --global user.name "Your User Name"

## **Set user's Email in Git Config**

After executing the above command successful, now we will change our email. By Type the following command.

```
dath logic. Now Act 12 28/27% on types/
subhress[sekhan-Medoo-Air 20 N git int
subhress[sekhan-M
```

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



## **AIM:Program to generate logs**

git log\_command is used to generate logs





## **AIM: Create and visualize branches**HOW TO CHANGE BRANCH IN GIT

The git branch command lets you create, list, rename, and delete branches. It

doesn't let you switch between branches or put a forked history back together

again. For this reason, git branch is tightly integrated with the git checkout and git merge commands.

# Why do we need a Branch in Git and Why Branches Are Important?

Git branches come to the rescue at many different places during the development of a project. As mentioned above, branches create another line of development that is entirely different or isolated from the main stable master branch. There are many advantages to doing so.

Consider that you are developing a project with your team, and you finish a feature. You contact the client to request them to see the feature, but they are too busy, so you send them the link to have a look at the project. Okay, it's lengthy to explain in words. Let's see the same project development in different phases through images.

#### How to view a Local Branch in Git?

Open Git Bash and navigate to the local working repository. Type the following command to view all of your branches.

```
Last Jogis Mem Apr 11 220746 on ttype80 |
International Joseph America (1998) |
International Joseph America
```

### **How to Create a Local Branch in Git?**

Let's create a new branch now in our local working repository. Type the following command to create a new branch named "activity1" git branch <a href="mailto:shranch\_name">branch\_name</a>

### **How to Switch Branch in Git?**

Check the branch you are currently on, which is visible alongside the directory name.

Switch to the "activity1" by executing the command: git checkout activity1

## How to merge branch in Git to another branch?

1 -First switch to new branch, and make a new file by using following command.

```
Anti-Control of Control of Contro
```

2 - Now after making changes in activity1 use the following command to merge the two branches.

```
Annual Content Description of the Just-created branch can be remained via this commend;

| International Content Description of the Just Content Description o
```

git merge <br/> <br/>branch name>



## **AIM: Git life cycle description**

General workflow is as follows -

- You clone the Git repository as a working copy.
- You modify the working copy by adding/editing files.
- If necessary, you also update the working copy by taking other developer's changes.
- You review the changes before commit.
- You commit changes. If everything is fine, then you push the changes to the repository.
- After committing, if you realize something is wrong, then you correct the last commit and push the changes to the repository.

