Experiment NO: 3A

truelines

DATE : __/__/____

TITLE

Title – GitHub.

OBJECTIVES

1. Understand about basic concepts of GitHub.
2. Creating Account on github.

PROBLEM STATEMENT

Create Version control account on GitHub and using Git commands to create repository and push your code to GitHub.

OUTCOME

Students will be able to,

1. Create Account on Github.
2. Create repository and push code to Github.

SOFTWARE & HARDWARE REQUIREMENTS

Software – Browser, Github, commandLine.

THEORY - CONCEPT

Creating a version control account on GitHub, creating a repository, and pushing your code to GitHub involves several steps. Here's step-by-step guide.

1. Create a GitHub Account :- If you don't have a GitHub account, go to GitHub and sign up for a free account.

2. Install Git :- If you don't already have Git installed on your computer, download and install it from the official website. Git Downloads.

3. Configure Git :- Set your name and emails address for Git to use. open a terminal or command prompt and run these commands, replacing "Your Name" and "Your.email@example.com" with your actual name and email :

- git config --global user.name "Your name"
  git config --global user.email "Your.email@example.com"
- Create a New Repository on GitHub.

- Log in to your GitHub account.
- Click on the "+" sign in the top right corner and select "New Repository."
- Fill in the repository name, description, and other settings.
- choose the visibility (public or private)
- optionally select a license and add a README file.
- click the "create repository" button.

- Initialize a Git Repository locally :- open a terminal or command prompt. navigate to your projects directory, and run the following commands.

bash

• #Initialize a new Git repository in your project directory git init.

Add all the files in your project to the repository
. git add .

commit the initial changes.
git commit -m "Initial commit"

• Connect Your Local Repository to GitHub :- on your GitHub repository page, you'll see instructions for connecting your local respository to the remote GitHub repository. It will look something like this:

• # set the remote repository URL (replace with your repository URL) git remote add origin https://github.com/yourusername/your-repo.git

Verify the remote URL
git remote -v

push your code to GitHub
git push -u origin master.

Replace https://github.com/yourusername/your-repo.git with the actual URL of your GitHub repository.

• Authenticate with GitHub:-

If prompted, enter your GitHub username and password or personal access token to authenticate.

- push your code to GitHub.

After setting up the remote connection, push your code to GitHub by running.

```
git push -u origin master
```

This command will upload your code to GitHub.

Access your Repository on GitHub.
Visit your GitHub repository page in your web browser to see your code and commit history.

DESIGN / EXECUTION STEPS.

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CONCLUSION / ANALYSIS.

Hence, we have created a GitHub account, created a new repository, initialized a local Git repository, and pushed your code to GitHub. You can continue to use Git commands to manage your code, make changes, and collaborate with other on GitHub.