

## TASK 1:

### 1) Create a Github repository:

Go to Github and log in to your account.

Click on the "+" icon in the top right corner of the screen and select "New repository" from the dropdown menu.

Enter a name for your repository and select any other options you want.

Click on the "Create repository" button.

### 2) Setup SSH keys into Github:

Generate a new SSH key pair on your local machine if you don't already have one. You can do this by running the following command in your terminal:

```
ssh-keygen -t rsa -b 4096 "subhashistripthy14@gmail.com"
```

Enter a file name for your key pair, then enter a passphrase if you want.

Copy the public key from the file you just created. You can use the following command to print the key:

```
cat ~/.ssh/id_rsa.pub
```

Go to your Github account settings and click on "SSH and GPG keys" in the sidebar.

Click on the "New SSH key" button.

Enter a title for your key and paste the public key into the "Key" field.

Click on the "Add SSH key" button.

### 3. Clone the repo in your local:

Go to your repository on Github and click on the "Clone or download" button.

Copy the SSH URL for your repository.

Open your terminal and navigate to the directory where you want to clone the repository.

Run the following command, replacing "your\_username" with your Github username and "your\_repository" with the name of your repository:

```
git clone git@github.com:subhashistripthy/tutorial.git
```

### 4. Add some files into it:

Navigate into the directory of the cloned repository in your terminal.

Create a new file or add some files to the repository. You can do this by running the following command:

```
touch file.txt
```

### 5. Push the files to Github:

Stage the changes by running the following command:

```
git add file.txt
```

Commit the changes by running the following command:

```
git commit -m "Added file.txt"
```

Push the changes to Github by running the following command:

```
git push origin master.
```

## TASK 2:

1.First, clone the GitHub repository to your local machine using the following command in your terminal

```
git clone https://github.com/subhashistripathy/repo.git
```

2. Once the repository is cloned, navigate to the directory using the cd command:

```
cd repo
```

3.Branch using the following command:

```
git checkout -b new-branch-name
```

Replace new-branch-name with the desired name of your new branch.

4.Create some new files or add some existing files to your project directory. You can use any text editor or IDE to create these files.

5.Now, add the files to the new branch using the following command:

```
git add .
```

This will add all the new files to the new branch new branch.

6.Commit the changes to the new branch using the following command:

```
git commit -m "Add some new files to new-branch-name"
```

Replace the commit message with your own message describing the changes you made.

7.Push the changes to the new branch using the following command:

```
git push origin new-branch-name
```

This will push the changes to the new branch on GitHub.

8.Finally, merge the new branch with the main branch by navigating to the GitHub repository on the web and creating a pull request. To do this, click on the "Pull requests" tab and then click the green "New pull request" button.

9.In the "Compare changes" section, select the new branch you just created as the "head branch" and the main branch as the "base branch". GitHub will automatically show you the changes that will be merged.

10. Review the changes and make sure everything looks good. Then, click the "Create pull request" button.

11. Add a title and description for the pull request and click "Create pull request" again.

12. Finally, click the "Merge pull request" button to merge the new branch with the main branch