**Experiment 1**

| **1.0** | **Hands on with GitHub & Git** |
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| 1.1 | Creating new free GitHub account online. |
| 1.2 | Creating new repository and commit the codes to newly created repository |
| 1.3 | Importing the codebase from different Github account to your Github account |
| 1.4 | Understanding different operations on Github |

* 1. Creating new free GitHub account online.

1. Go to **github.com –Signup** provide mail id and create an account.
2. Install git for windows or sudo yum install git(linux)
   1. Creating new repository and commit the codes to newly created repository
3. Sign in github Create a repository (**DemoRepo**) ,provide a valid name and make public or

private.

Eg: **PreethaS25/DemoRepo**

1. Create Program files in local Folder **Devops Lab** (a.html,login.py …)
2. Go inside Local Folder **Devops Lab ,**Right Click open **Git Bash here**
3. Automatically will create a git repository locally

**git init**

1. Configure name and email

**git config - -global user.name “PreethaS25”**

**git config - -global user.email “preethas@nttf.co.in”**

1. Add the files in the staging Area

**git add a**.**html** or **git add .(**all the files**)**

1. Save the changes in the staging Area

**git commit** –m “messages”

1. Connect remote repository into local repository

**git remote add alternativeReponame “Remotrepositorypath”**

Eg: **git remote add Reponew <https://github.com/PreethaS25/DemoRepo.git>**

1. Perform Push

**git push alternativeReponame Branchname**

**Eg: git push Reponew master**

1. **Authorize github Refresh the remote repository(github) ,the files will be added**
   1. Understanding different operations on Github
2. Perform **pull** operations

Add a file in Remote repository Sample.html

1. Goto GitBash –Perform pull

**git pull alternativeReponame Branchname**

**Eg: git pull Reponew master –**Sample.html is pulled in the system

1. List all the branches

**git branch**

1. Create a new branch

**git branch NewBranchname**

**Eg: git branch BranchAttend**

1. Switch to new branch

**git checkout Branchname**

**Eg: git checkout BranchAttend**

1. Add a file to new Branch-Add the file to staging area,commit and push the file to remote repository
2. **Create a file in local folder Example.html**
3. **git add Example.html;**
4. **git commit –m “Example is added in new branch “**
5. **git push Reponew BranchAttend**
6. Refresh the github and see the result

7.Merge the child branches to master branch

1. switch to master branch,merge new branch and push the changes in github

**a. git checkout master**

**b. git merge Branchname**

**Eg: git merge BranchAttend**

**c. git push Repo BranchAttend**

**1.4**Importing the codebase from different Github account to your Github account

1. Go to Github top corner press +sign .Click import Repository.Paste Old Url,

Give repository details,Begin import

**or**

2. **git clone RemoteRepoPath -** obtain a repo from existing URL