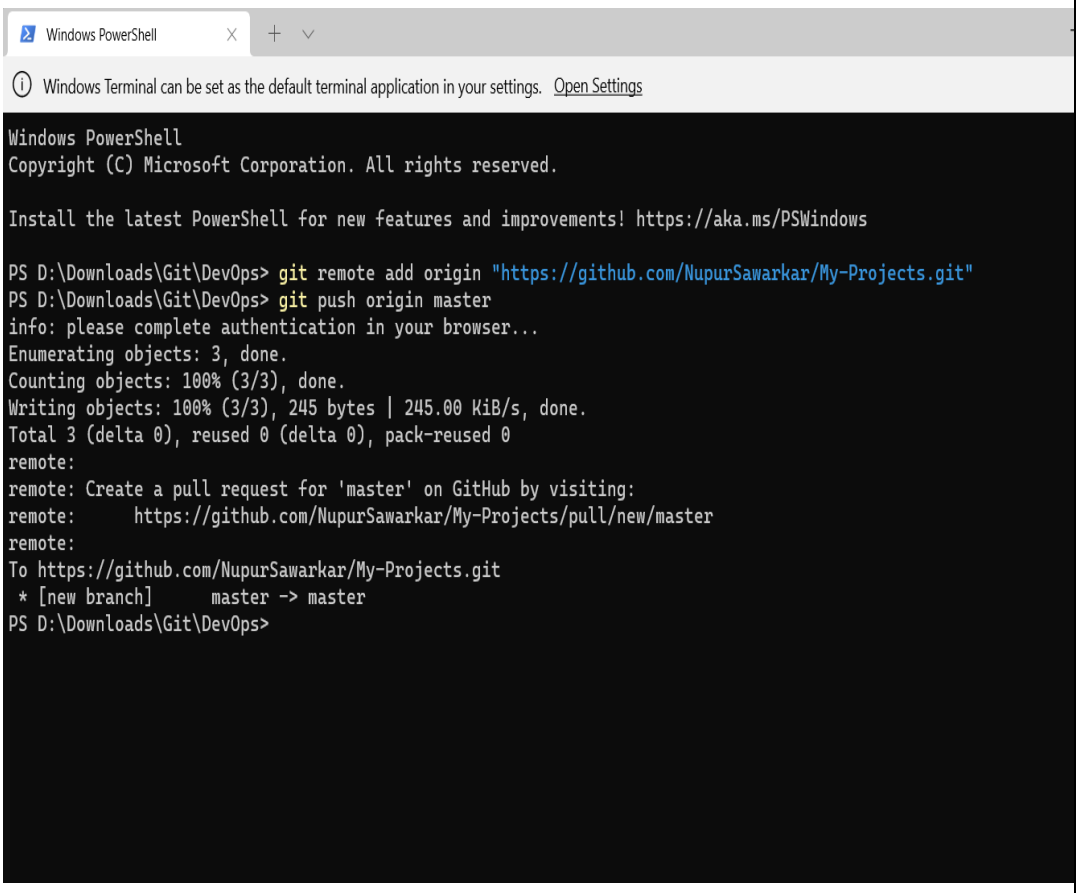
Vidyalankar Institute of Technology ACCREDITED A+ BY NAAC	**Department of Information Technology**

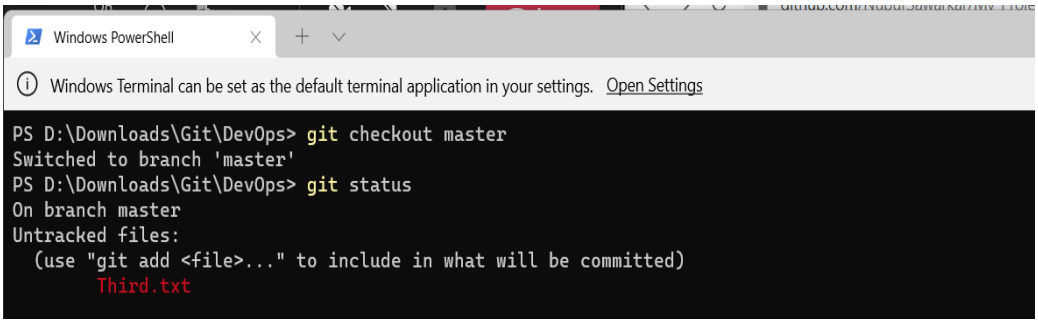
Semester	B.E. Semester VIII – INFT
Subject	DevOps Lab
Subject Professor In -charge	Prof. Rohit Barve

Student Name	Nupur Sawarkar	
Roll Number	18101B0030	
Grade and Subject Teacher's Signature		

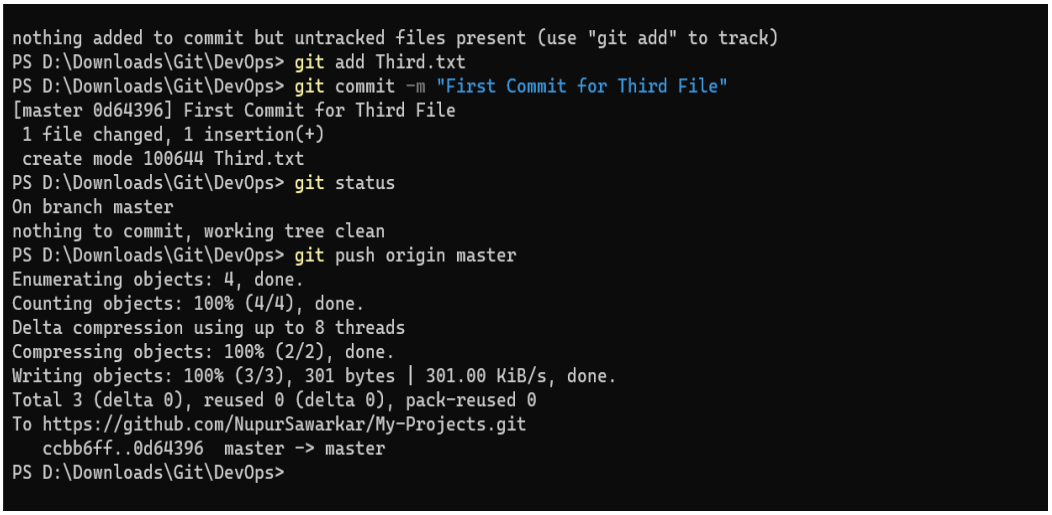
Experiment Number	02	
Experiment Title	To perform version control using GitHub.	
Resources / Apparatus Required	Hardware: ● Intel Core i3/i5/i7 Processor with Intel VT-X support. ● 4 GB RAM ● 500 GB Hard disk	Software: Operating systems: Windows or Linux Desktop OS for Client machines.
Theory	**GitHub:** ● GitHub is a web-based version-control and collaboration platform for software developers. ● GitHub allows developers to change, adapt and improve software from its public repositories for free, but it charges for private repositories, offering various paid plans. Each public or private repository contains all of a project's files, as well as each file's revision history. Repositories can have multiple collaborators and can be either public or private.	

	• GitHub facilitates social coding by providing a web interface to the Git code repository and management tools for collaboration. GitHub can be thought of as a serious social networking site for software developers. Members can follow each other, rate each other's work, receive updates for specific projects and communicate publicly or privately. • Three important terms used by developers in GitHub are fork, pull request and merge. A fork, also known as a branch, is simply a repository that has been copied from one member's account to another member's account. Forks and 2 branches allow a developer to make modifications without affecting the original code. If the developer would like to share the modifications, she can send a pull request to the owner of the original repository. If, after reviewing the modifications, the original owner would like to pull the modifications into the repository, she can accept the modifications and merge them with the original repository.
Steps	Create a git repository and remote add it to the local computer. 

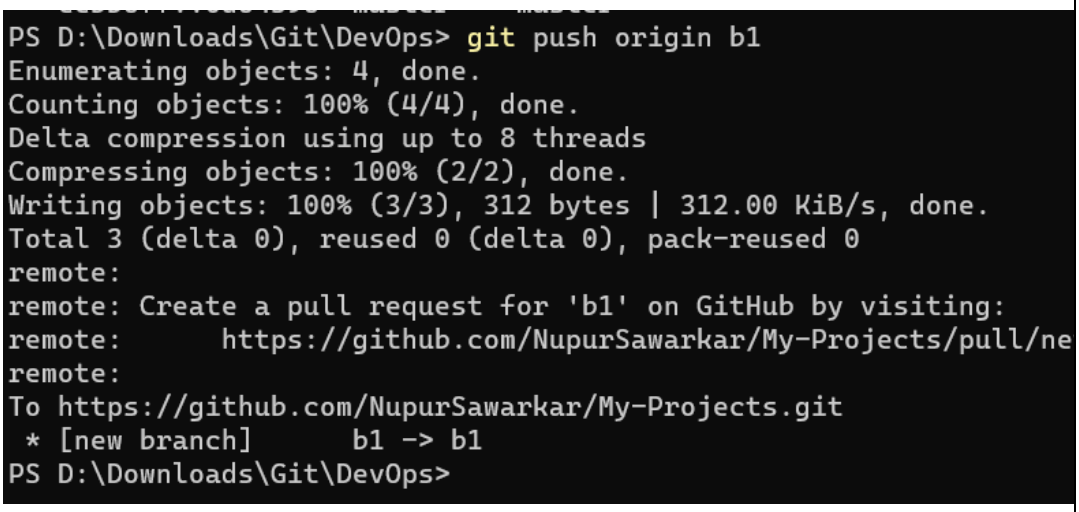
To push the new/modified file into the repository.

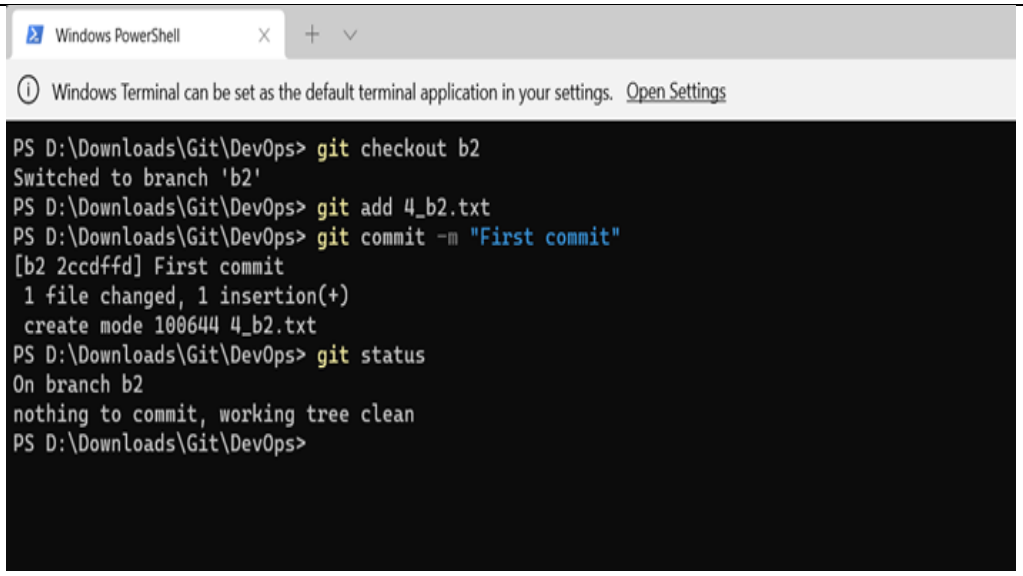


Add and commit the Third.txt file and push it to the repository.

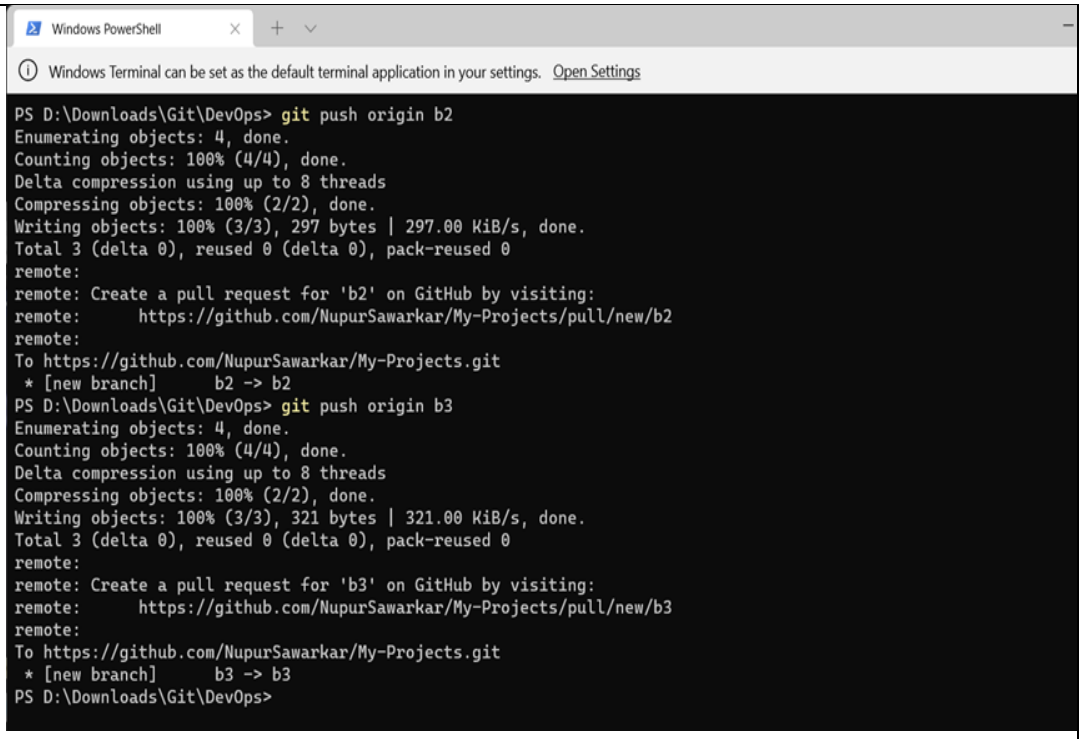


Similarly, push it into branch b1 and branch b2.



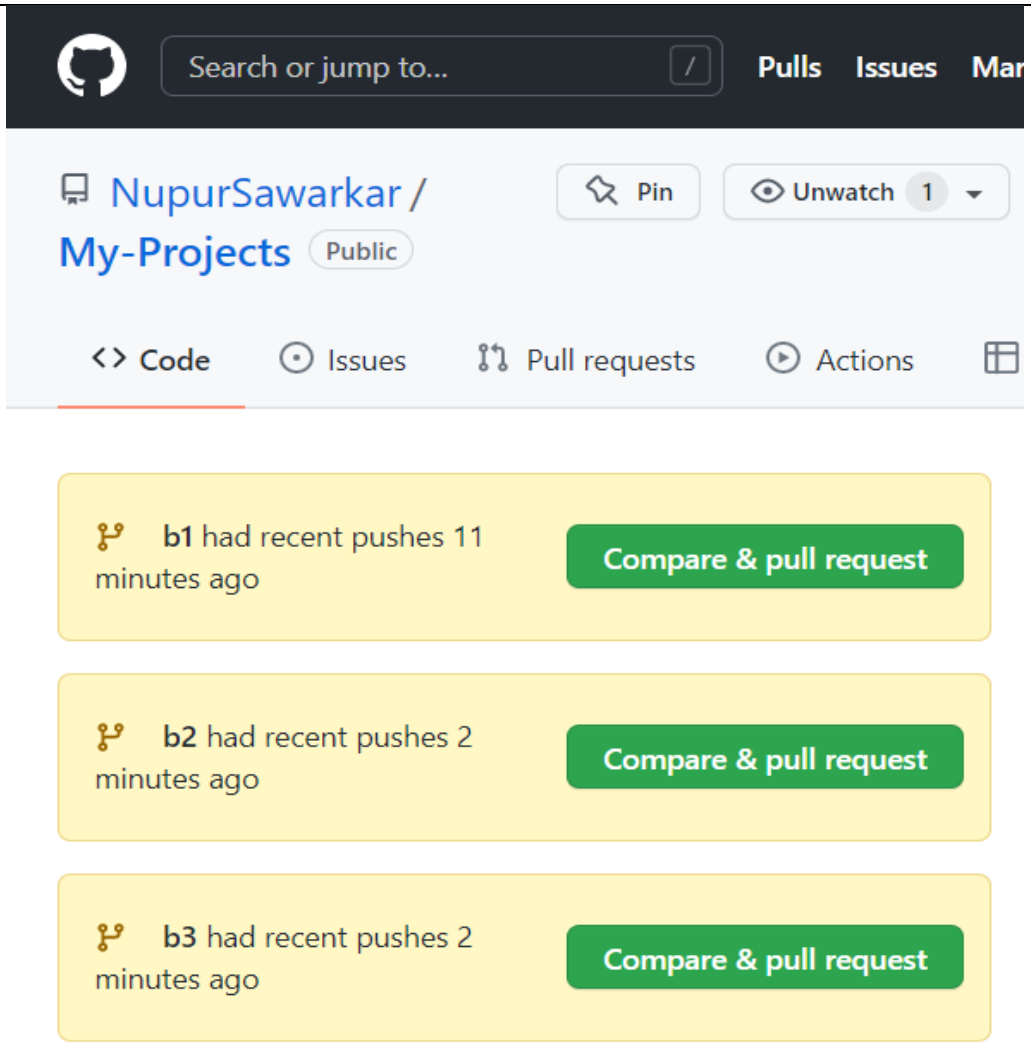


Create the other branches (i.e b3 and b4) and push one text file in each branch.

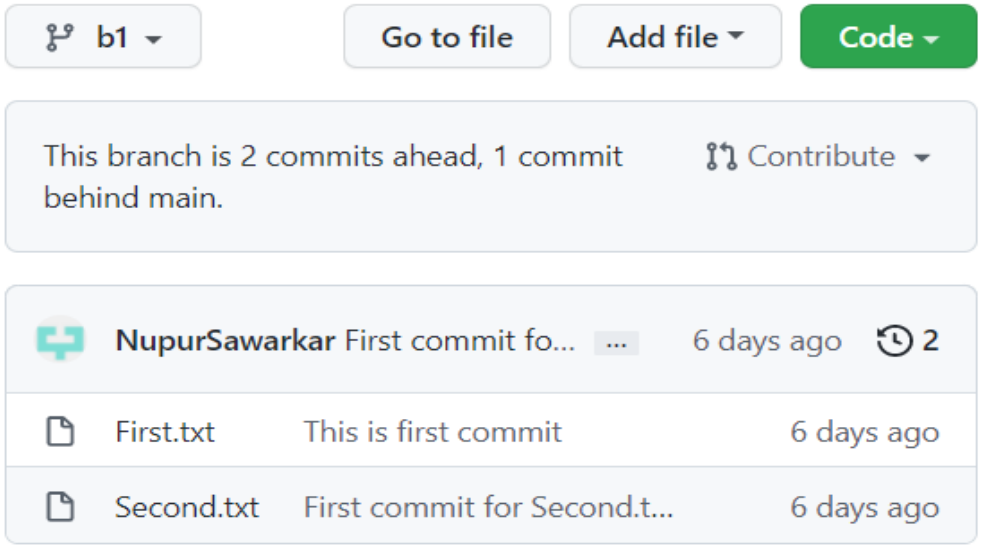


GitHub Pages:

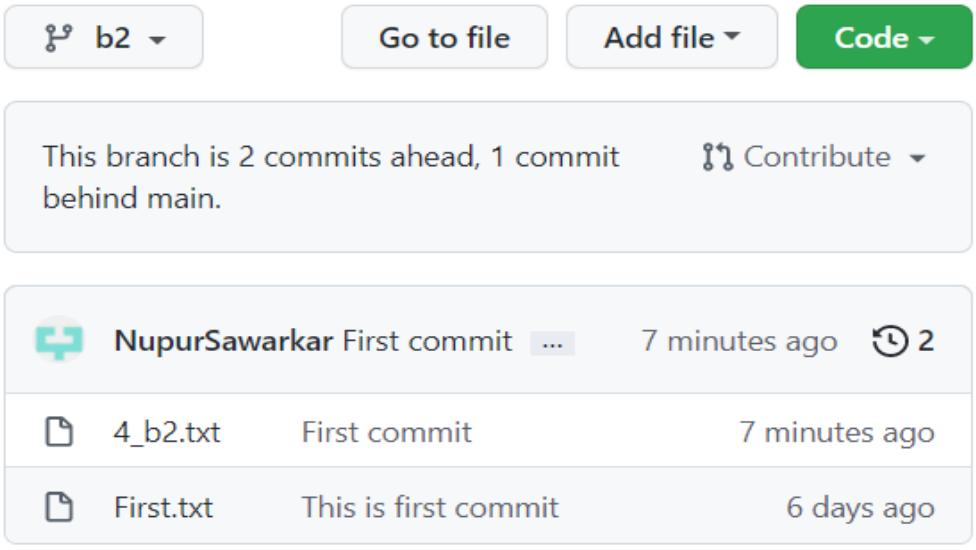
Master Branch:


Search or jump to...
Pulls
Issues
NupurSawarkar /
My-Projects
Public
Pin
Unwatch 1
Code
Issues
Pull requests
Actions
b1 had recent pushes 11 minutes ago
Compare & pull request
b2 had recent pushes 2 minutes ago
Compare & pull request
b3 had recent pushes 2 minutes ago
Compare & pull request

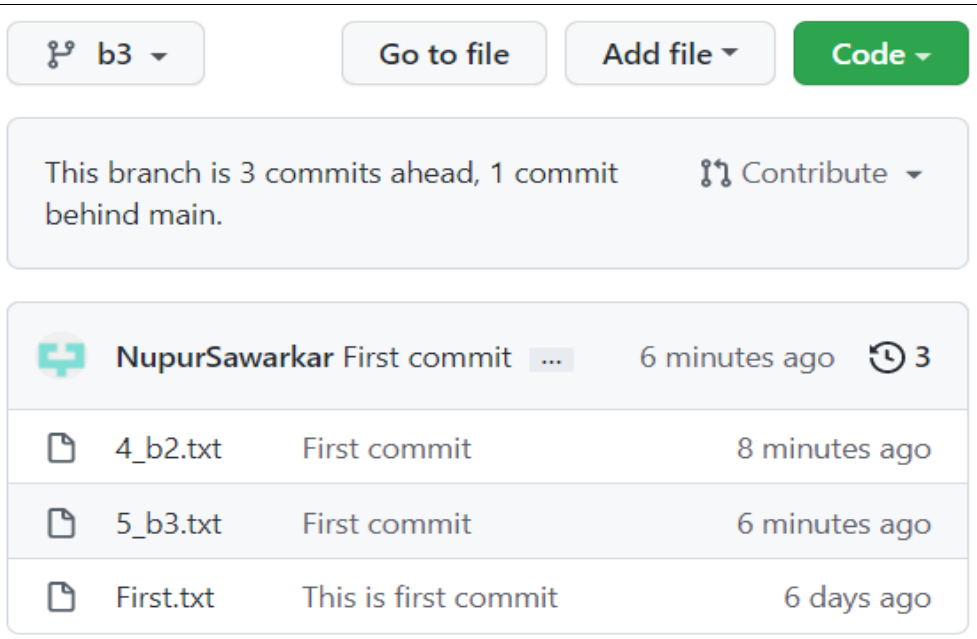
Branch 1:



Branch 2:



Branch 3:

	
Conclusion:	We came to know about how to use GitHub for version-control. GitHub is a web-based version-control and collaboration platform for software developers.