## **Full Stack Development: Experiment 1**

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		FSD EXPERIMENT - 01
		AIM: Version control with Git. OBJECTIVES: (1) To introduce the concepts of software behind
		version control, using the example of Git.  (2) To understand the use of 'version control' in
<i></i>		the context of a coding project.  (3) To learn Git version control with Clone committee.  to, & push, pull from a Git repository.
		THEORY:
	91)	What is Git, What's version control?
	-	Git is a distributed version control system used to track changes in code or files, enabling collaboration of history
		tracking. It allows developers to manage projects, branch, merge & revert changes efficiently.
	<b>→</b>	Version (ontrol is a system that records changes to files over time, allowing users to revisit & manage past versions, collaborate seamlessly & prevent conflicts in a collaborative work.
	(2)	How to use Git for version controlling?
	Ans:	OInstall Git OInitialize a repository
		4 Create a new repository: git init
		Glone an existing one : git clone < repository _url>
		3 Track changes
		www.mitwpu.edu.in

4 Add files: git add (file) or git add.

4) (ommit changes: git commit-m "message".

) View changes:

Ly Check status: git status

Lyview history: grt log

5) Branching:

4) (reate branch: git branch (branch\_name)

4) Switch: git checkout (branch\_name) or git switch (branch\_name).

(6) (ollaborate:

4) Pull changes: git pull

4) push changes : git push

(7) Merge branches with : git merge

(8) Resolve

FAQ:

QI) What is branching in Git?

- -> Branching in Git allows us to create independent lines of development within a repository. It enables you to work on features, fixes/experiments separately without affecting the main codebase 4 later merge changes back when ready.
- 92) How to create 4 merge branches in Git? Write the commands used.
  - -. To create a branch: git branch <branch-name) . To merge a branch:
    - 4 Switch to the branch you want to meage into using git checkout main

Li Merge the branch using git merge branch hame.







