Expt. No. _ 1 Submitted on Remarks What is Github? Github is a Git repository hosting service. Github is an american company. Github also Facilitates with many of its feactures such as access control and collaboration. It provides a web-based graphical interface. It hosts source code of your project the form of different programming language. of keeps track of the various changes made by programmers. It offers both distributed version control & source code management (SCM) functionality of Git. Feachures of Github > Github is a place where programmers & designers work together they collaborate, contribute & fixbugs together. some of its significant feachines are as follows: 1) collaboration 2) Integrated issue of bug tracking 3) Graphical representation of branches. 4) Git repositories hosting 5) project management 6) Team Management 7) code hosting 8) Track & design tasks mplete for: 9) Conversations 10) Wikisc ogramme Listing

gorithm

ow Chart

sults

Benefits of Github =>
The key benefits of Github ore as follows:

1) It is easy to contribute to open-source projects via Github.

2) It helps to create an excellent document.

3) You can attract recruiter by showing of your work.

If you have a profile on Github, you will have a higher chance of being recruited.

4) It allows your work to get out there in front of the public.

5) You can track changes in your code across versions.

* Advantages of Github >

i) Similar to other online report services, guitar comes with a big benefit to have the content inputted in such a format without having to know another system.

2) Flavoured markdown is another benefit of using Gither b.

3) Collaboration is another benefit of using Github. For people who do not remain in the same physical location.

4) you do not need to connect with your company's VPN as it is easier to dump with the collaboration feature

of Github.

* Disadvantages of Github >

is one of the disadvantages.

2) some employers & clients can only allow code on their private secure internal git as for as the matter

of policy is concerned.

3) pricing is another, potential drawback of Github.

4) some of the feactures & online repositories happen to be locked behind a saas paywall.

Name Bhangale Dhanashri Expt. Title Clone the repository at https://github.a Class FYMCA Batch B1 _ Performed on Expt. No. 2 Returned on Introduction of Git > Git is an open-source distributed version control system. It is designed to handle minor to major projects with high speed + efficiency . It is developed to coordinate the work among the developers the version control allows us to track & work together with our team members at the same workspace. Git is foundation of many services like Github & Gittab, but we can use git without any other Git services. Git can be used privately & publicaly. * Feachures of i) Open Source -> Git is an open-source tool. It is released under the GPL (General Public License) license 2) Scalable 3) Nistribuled 4) security 5) Speed 6) supports non-linear development 7) Branching 4 Merging 8) Data Assurance g) staging Area 10) Maintain the clean history. * Benefits of Git > 1) Saves Times > Git is lightning fast technology. Each commands takes only a few seconds to

Incomplete for:

1) Algorithm

2) Flow Chart

4) Results

5) Comments

3) Programme Listing

execute so we can save a lot of time

as compared to login to a Github account 4. Find out its features.

2) offline Working > one of the most important benefits of Git is that it supports offine working . If we are facing internet connectivity issues it will not affect our work

3) Undo Mistakes > one additional benefit of Git is we can undo mistakes sometimes the undo can be a sovier option

*What does Git do?

· Monage projects with Repositories.

· clone a project to work an a local copy.

- · control & track changes with staging of committing.
 · pull the latest version of a project to a local copy
- · push local updates to the main project
- * commands > i>version => this command is used to list the version history for the current branch syntax = \$ git -- version
- 2) Help => this command is used to display all the information about git syntax > \$ git -- help
- 3) clone => Git allows making a copy of only particular branch from a repository you can make a directory for the individual branch by using the git clone command. It creates a copy of an existing Git repository cloning is the most common way for developers to obtain a working copy of a central repository. syntax => \$ git clone < Repository UT/>

Name Bhangal	e phonostro	Nilia	11
Expt. Title Use 9	it add to add	that file to the repose	itory
Class EVMCA	Batch 81	Performed on	-
Roll No. 11	Expt. No	Submitted on	-
Remarks		Returned on	-

i) git clone >

clone command is used to creates a copy of an existing git repository & cloning is the most common way for developers to obtain a working copy of a central repository syntax >> \$ git clone < Repository UTI>

2) git add >

the git add command adds a change in the working directory to the staging area. It tells git that you want to include updates to a particular file in the next commit. However, git add doesn't really affect the repository in any significant way changes are not actually recorded until you run git commit.

syntax > \$ git add [filenome].txt

3) git commit >

The git commit command is one of the core primary function of Git prior use of the git add command is required to select the changes that will be stage for the next commit. Then git commit is used to create a 'snapshot" of staged changes along a time of a git projects history.

syntax > git commit - m"message"

whereas the commit command performs a commit, if the -m "message" adds a message in that file.

Incomplete for:

- 1) Algorithm
- 2) Flow Chart
- 3) Programme Listing
- 4) Results
- 5) Comments

DEPARTMENT OF COMPUTER SCIENCE INSTITUTE OF MANAGEMENT AND RESEARCH, JALGAON

Name Bhanga	le Ohanashr	Mitin
Expt. Title Use 9	it push to send	14 your change to the primary 14 your change has been bushed Performed on
Roll No. 11	Expt. No. 4	Submitted on
Remarks	1 20 100	Returned on

shall git clone >

of estallar

clone command is used to creates a copy of an existing git repository of cloning is the most common way for developers to obtain a working copy of a central repository.

syntax = & git clone < "Repository Url">

2) git add >

the git command adds a change in the working directory to the staging area. It tells git that you want to include update to a particular file in the next commit. However, git add doesn't really affect the repository in any significant way changes are not actually recorded until you run git commit.

syntax = \$ git add [filename]. txt

3) git commit >

the git commit command is one of the core primary function of git prior use of the git add command is required to select the changes. That will be staged for the next commit then git commit is used to create o "snapshot" of staged changes along a timeline of a git project history.

syntax => git commit -m"message"

whereas, the commit command performs commit 4-m "message" adds a message.

Incomplete for:

- 1) Algorithm
- 2) Flow Chart
- 3) Programme Listing
- 4) Results
- 5) Comments

the push term refers to upload local repository content to a remote repository pushing is an act of transfer commits from your local repository to a remote repository.

Make over twe can say the push updates the remote repository with local Every time you push into the repository. it is updated with some interesting changes that you made If we do not specify the location of a repository, then it will push to defoult location at origin master

The "git" push" command is used to push into the repository.

AND THE PART WELL STORY TO STORY

0)

INSTITUTE OF MANAGEMENT AND RESEARCH, JALGAON Name Bhangale Dhanashri Alitin Expt. Title VSE git pull to get your pent of your repository weaks that you have performed on Class FYMICA Batch -5 Submitted on _ Expt. No. _ Returned on Remarks Introduction of Git Pull > The form pull is used to receive data From Github. It fetches + merges changes from the remote server to your working directory. The git pull command is used to pull a repository. pull request is a process developer to notify team members they have completed a feacture once their feature branch is ready, the developer files a pull request via their remote server account pull request announces all the team members that they need to review the code + merge if into the master branch Remote Repository Local Repository master forigin/master master fetch * the below Figure demonstrates how pull acts between different locations & how it is similar or dissimilar to other related commands Incomplete for: workspace Repository 1) Algorithm Remote Fetch 2) Flow Chart 3) Programme Listing 4) Results 5) Comments Index Commit

*The "git pull" command >

The pull Command is used to access the changes (Commits) from a remote repository to the local repository. It updates the local branches with the remote tracking branches remote tracking branches that have been set up to push 4 pull from the remote repository. Generally, it is a collection of the fetch of merges command first, it fetches the changes from remote & combined them with the local repository.

syntax of git pull commands =>
\$ git pull < option > [< repository URL >< refspec>--]

DEPARTMENT OF COMPUTER SCIENCE INSTITUTE OF MANAGEMENT AND RESEARCH, JALGAON

Name Bhangale	Dhanashri	Nitio	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Expt. Title Use git Class EYMCA E	lag or git log	1005 1000	e a list of char
Class EYMCA E	Batch 81	Performed on	e repository.
ROII No. 11 E	xpt. No.	Submitted on	
Remarks		Returned on	

the git clone command fine ability which is used to make a local copy to remote repository. It access the repository through remote URL

syntax => \$ git clone < repository URL>

The advantage of a version control system is that it records changes These records allow us to retrieve the data like commits figuring at bugs updates. But all of this history will be useless if we cannot navigate it. At this point wee need to use git log command.

A Basic git log a

Git log command is one of the most toca usual commands of git. It is the most usual commands for git.

Every time you need to check the history you have to use the git log command command. The basic git log command will display the most recent commits the status of the head.

Syntax > \$ git log.

Incomplete for:

- 1) Algorithm
- 2) Flow Chart
- 3) Programme Listing
- 4) Results
- 5) Comments

RTMENT OF COMPUTER SCIENCE INSTITUTE OF MANAGEMENT AND RESEARCH, JALGAON Name Bhangale Dhanashri Nilin Exp. THE Demonstrate the use of git diff command Class FYMICA Batch BJ Performed on Roll No. 11 Expt. No. 9 Remarks i) git clone command. The git clone command -line utility which is used to make a local copy to remote repository. If access the repository through remote URL syntax = \$ git clone < repository UT17 2) git diff command + Git diff is a command line utility It is a multiuse Git command . When is executed. it runs a diff function on git data source these data source can Be files branches , commits of more . It is used to show changes befor commits commit to working tree, etc. Diff command is used to in git to track the difference bet the changes mode on file: since, Git is a version control system, tracking changes are something very vital to it Diff command are something very vital to it, Diff command takes two inputs treflete He the differenances between them. syntax + \$ git diff

plete for :