|        | Git Commands                                     |
|--------|--|
| GitBro | anch, git checkout, git pull, git push, git n    |
| gilbr  | anch (or) create Branch:                         |
|        | -> you can create a new branch with the help     |
|        | of the git branch command.                       |
|        | Syntax: \$ git branch < branch name >            |
|        |  |
| git ch | eckout:  |
|        | -> Git allows you to switch between the branches |
|        | without making a commit.                         |
|        | -> you can switch between two branched with the  |
| 8      | gltcheckout command                              |
|        | Syntax: \$ git checkout < branch name >1         |
|        |  |
| git me | erge or merge Branch:                            |
|        | -> git allows you to merge the other branch with |
|        | currently active branch.                         |
| 20-1   | -> you can merge two branches with the help of   |
|        | "git merge" command.                             |
|        | Syntax: & glt merge & branch name>               |

|   | Experiment No. :                                  |
|---|---|
|   | Name of the Experiment:                           |
|   | git Pull:   |
|   | -> This command fetches and merges changes on the |
|   | remote server to your working directory           |
| , | git push:   |
|   | -> This command sends the committed changes of    |
|   | master branch to your remote repository           |
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| Experiment No. : 7 Date: Page No.: 15  Name of the Experiment : Branching and merge requests   |
|--|
|  |
| Edit a file, commit and push. Create a branch make changes, push and create merge reavest  |
| Step-1: initially create a repository and then go for add<br>lile option. Click on create new tile   |
| Step-2: In this Step edit the file and then go for commit changes and select commit directly to the main branch and then commit changes  |
| Step 3: After clicking commit change then directly go back and then click on new branch as Shown below   |
| Step 4: In this Step specify the new branch name as  Feature branch ay Shown in the below figure  and allok on create new branch.  |
| Step 5: Then go back the current repository and click on master icon where u can find all branches present click on the feature-branch.  |
| Step 6: on allowing on the feature-branch u can find the files present in the feature-branch either u can edit the files already present or elese u can add the files to feature branch, Then go for commit changes. |

|          | periment: Branching and merge request  |
|----------|--|
| Step 7:  | on going repository you can find the below fly and there you compare and pull request and click on that option.            |
| \$40 8 ° | upon scroll down you can find the create pur<br>request option where you can click on that<br>option for pull the changel. |
| Step 9 : | In this last (tep click on merge full request so that you can merge the files from reaturement to the master branch.       |
| Steplo:  | finally the feature-branch is merged with matter branch.   |
|          |  |
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|        | Cherry-Pick command   |
|--------|---|
| Step   | Sample and initialising the repolating the glt Init   |
| Step   | 2: creating a 'txt' file wing vi command to the Project let s say an index file and add it to ou sample project and make a commit and write a commit message before pressing the Enter one can check your commit by git log command can                             |
| Step.  | 3: Now assume we have 2 versions, So create 2 different branches by using the glt branch command and move to a branch, let Say 2 by using git Checkout command.   |
| Step 2 | t: Now Suppose you want to work ton Some new features fle so creating and adding a new features file lets say feature. Ext using vi and add command respectively as Sho Then commit your changes with a commit message one can check your commit by git log command |

|   | name of the Experiment :                                    |
|---|---|
| Γ |   |
|   | Step 5: Now Suppose we found a bug in our feature           |
|   | and we came to know that this same bug is                   |
|   | allo present in our 1 branch                                |
|   | And now we are trying to fix some bug or issue              |
|   | as shown below by adding a fix txt file let's               |
|   | suppose and add It to to the current branch                 |
|   | i.e 2 and committing the required changes.                  |
| _ |   |
|   | Step 6: Now, we have fixed the bug in branch 2, but we also |
|   |   |
|   | need to add this Fix to our branch 1 aug, but we            |
| _ | don't want to merge this branch 2 into our branch           |
| - | because the work might Still he going to on the Feature     |
|   | Thus, in this scenario, we can cherry-Pick this particular  |
|   | commit. To do so, just copy the hash value highlighted      |
| _ | In the above diagram, them move to branch t by usin         |
|   | Check out and then use the command cherry-Pick              |
|   | and paste the hash we just copied.                          |
|   | As seen crearry fro, then we notice that Previously         |
|   | we have only index text before doing therry-Picki           |
| _ | but now we have the FIX. tot file also in our 1st           |
|   | -branch   |
|   | Now If we try to check glt dog onellne, we will             |
| _ | be able to see that commit allo came in the                 |
|   | branch 1  |
| _ |   |
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|   | periment No. :   |
|---|--|
|   | Resolving a merge conflict on Github   |
|   | Step 1: Initially open the repository which contains the files in master branch. |
| 9 | Step 2: Then (lick on the file and do some changes in the file (file.txt)        |
| 2 | it as subbranch2 and wick on Propose Changes butte                               |
| S | see the compare and Pull rewuest from subbranz                                   |
| 5 | and so some Changes at below and (11ck on commit changes.                        |
| S | tep 6: click on commit directly to the master branch and go for commit changes.  |
|   |  |
|   |  |

| Experiment No. :  |
|---|
| Name of the Experiment:Resolve a marge Conflict               |
|   |
| Step 7: Then again go back to repository and cilck on         |
| <br>compare and Pull request, you can find an                 |
| conflict as cant automically merge.                           |
|   |
| Step 8: Next step is scroll down the Page there is an Pull    |
| request option. Click on Pull request                         |
|   |
| Stepq: Next after clicking on Pull request next window        |
| appears as below where a can see the resoive                  |
| conflicts, click on resolve conflicts.                        |
|   |
|   |
| step 10: Next Step delete the text enclosed in 4444 and 77777 |
| <br>part and click on mark as resolved button on the          |
| and the side.   |
| And then go for commit merge button at the right hand side    |
|   |
|   |
| Step 11: After commit merge a window will pop up as           |
| below with merge pull reduct lick on merge                    |
| Rue request and go For commit merge                           |
| ,   |
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