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**Instruction sheet for using Git and Github**

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Version1.0

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1. Download git software tool
   1. Download the command line interface based software from link below. It will size 14.7 MB (for Git 1.9.0)

<http://git-scm.com/downloads>

1. Installation
   1. Install with default options on windows platform
2. Creating Github account
   1. Signup on <https://github.com/>
   2. Login if you already have an account.
   3. Create a new repository(repo) for saving your work.
3. Starting version control on local folder
   1. Right-click on folder you want to start version control and select Git Bash. This will open command line interface.
   2. Using following set of commands

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| **Command** | **Action Performed** |
| *git init* | Start git version control by initializing |
| *git config --global user.name yourname*  *git config --global user.email emailid* | Sets your identity.  Required only once. |
| *git add filenamewithextension*  OR  *git add .* | Add particular file to staged area  Add all files inside the folder to staged area |
| *git commit –m “your commit message”* | Commit files as final version |
| *git remote add origin https://github.com/username/reponame.git* | Create repo on your github account. Assign a shorthand name to repo. origin in this case. |
| *git push –u origin master* | Push all committed files from local repo(master) to remote repo (origin) |
| *git status* | Check status of files. Uses anytime you wish to check whether files are untracked, modified or committed |
| *Git remote* | Checks shorthand name of remote repo |
| *Git remote rm remoteshorthandname* | Delete shorthand name of remote repo |

*Table-1 Commands for starting version control on local repo*

1. Collaborate on someone else project
   1. Search project by name
   2. Use *fork* option available on github site.

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| *fork* | will create a copy of project in your github account. |
| *git clone projecturl* | Copy files on desktop for editing |

*Table-2 Commands for collaboratively working on someone else project*

* 1. Use commands of table-1 above to make changes, commit and push files on you own github account
  2. Send pull request from your github account to owner of project. This is like requesting project owner to accept your contribution in there project
  3. Owner of project receives request on their account. He/she can accept/request modification/reject for your contribution.
  4. Owner can accept you contribution by using merge option on github account.