**Productivity-enhancement-l1-june-2019**

**GitBash:**

* **pwd**-->present working directory(folder)
  + Display the current Location of CLI
* **ls**(list)-->List all Files and Folders current Directory
* **help** -->provides documentation on commands
* **cd**-->change directory
  + cd subfolder -->navigate to sub folder
* Go back to main directory
  + cd -->navigate to home
  + cd - ->navigate to previous location
  + cd .. -->navigate to parent folder
  + cd ../..-->navigate to parent of parent folder
* **Ctrl + l** -->clear the screen
* **mkdir foldername** -->creates a new folder in the current repositary
* **rmdir foldername →** remove empty folders
* **touch filename.txt -->**create new file
* **rm -rf filename**
* **echo ->**return data
* **echo data >>filename.txt** -->to insert data in to file
* **cat filename.txt -->**Display data in file
* **touch file{1..10}.txt -->**create Multiple files
* **rm file{6..10}.txt**
* **rm \*.txt**
* **mv soucefile.txt destinationfile.txt -->**rename file
* **cp soucefile.txt destinationfile.txt -->**copying data to another file

**Git Version Control**

* Initiate Git for a repository
  + git init
* Configure Git
  + git config user.name "vijay"
  + git config user.name
  + git config user.email [vijay10022@gmail.com](mailto:vijay10022@gmail.com)
  + git config user.email
* Three stages
  + Untracked
  + Staging Area (Tracked)
    - git add file1.txt file2.txt
  + Commit(Version or Snapshop)
    - git commit -m "Version 1"
* Checking
  + git status
* Checking commit log
  + git log

1. **Synchronizing local repository with github**
   1. Create a new repository on github
   2. With the same name,create new repository on the local machine
   3. Initialize git in the local repository
   4. Configure git in the local repository
   5. Synch with github to get the latest version of the cloud repository to the local machine
      1. Create a remote handle from the local machine to the cloud
         1. Git remote add remotename githubrepositoryURL
      2. Check if the remote got created
         1. Git remote -v
      3. Pull all data from cloud repository to local machine
         1. Git pull remotename master
   6. Update/modify files in the local repository
   7. Add changed files to staging area
   8. Commit with a version number
   9. Check the log to see if the commit got logged
   10. Push the committed version from local repository to cloud
       1. Git push -u remotename master