**CMD COMMANDS FOR PYTHON VIRTUAL ENVIRONMENT**

1. To check the list of modules of python available in device: pip list
2. To create new virtual environment: python -m venv name\_of\_project
3. To check if the project is created. It will list the directories: dir
4. To activate the environment: name\_of\_project\Scripts\activate.bat
5. To check the location of directory: where python
6. If you again type pip list in activated directory it will show the modules installed in that directory.
7. To deactivate the virtual environment: deactivate
8. To create and export modules into requirement.txt file: pip freez

Then copy the modules and paste it in .txt file (can be made as a normal file with .txt extension)

1. To delete the environment: rmdir name\_of\_project /s
2. To create a new project: mkdir project\_name
3. To create environment in project: python -m venv project\_name
4. Activate: project\_name\venv\Scripts\activate.bat
5. To install the requirement.txt in this project file: pip install -r requirement.txt
6. To make the environment with all the packages present in the system: python -m venv venv –system-site-packages
7. To check the package installed for particular directory: pip list –local

**GIT COMMANDS**

1. To clone repository on local machine: first copy the https link from github and then write git clone copied\_link
2. To see the hidden files : ls –a
3. To check the status of project : git status
4. To add new or changed file in working directory to git staging area : git add file\_name
5. To add every file at once : git add .
6. To commit the changes : git commit -m “some message”
7. To push or upload changes from local machine to github repo : git push origin main
8. To make a folder: mkdir folder\_name
9. To make a file: touch file\_name

**Init Commands**

1. To create new git repo: git init
2. To take the github folder linked by git: git remote add origin https\_github\_link
3. To verify remote(repository): git remote -v
4. To check branch: git branch (can be main or master)
5. To rename the branch into main from master: git branch -M main
6. To push the file: git push origin main

**How to contribute to any project (Branching)**

1. To fork: Go to project repo. And click “fork”
2. To clone: git clone Your\_forked\_project\_link
3. To create a branch: git checkout -b new\_branch\_name
4. To add an upstream(Jaha se fork kiya): git remote add upstream main\_Repo\_link
5. To add files: git add .
6. To commit: git commit -m “Any relevant message”
7. To add origin: git remote add origin forked\_repo\_link
8. To check upstream and origin git remote -v
9. To push changes: git push origin branch\_name
10. Navigate to the forked repo link and reload the page, u will notice “compare and pull request option”.

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