**DEVOPS DOCUMENT 5**

**(Git Bash)**

**What is git?**

* Git is a software for tracking changes in your code base for collaborating with other developers.
* Git is known for its tree like structure where you branch off from a code base in order to make your changes and merge them back in another location.
* It will help to see the difference between two branches and help to merge them together.
* It is used by almost every developer out and there services like GitHub created a whole software about it.

**What is git bash?**

It is a CLI (command line interface) used for GitHub.

**How to install Git Bash?**

* Open a browser and search for git bash
* Click on the first page link and click download for windows
* In next window select 32bit Git or 64bit Git
* Once you choose bit the download starts
* Then the git bash is on our download folder now we want to right click on it and select run as administrator.
* For next five steps please click next , next and next And finally do not select anything and click finish.
* Once you click finish it starts installing in windows.

**How to upload a file from local repository to GitHub using Git Bash?**

1. First we have to open a git bash and put **ls** on that **CLI**
2. **Ls** command is used to list ail the files in that path.
3. Then if we want to push some file into git hub we want to copy that path and we use **cd** command
4. **cd** command is used to change the directory.
5. Now we want to put the command **cd “path of folder”**
6. After that if we put **ls** command it shows the path of file we want to upload.
7. Then we want to initialize git for that we can use **git init** command.
8. To push your source code to repository in git bash type **git remote add**
9. origin and paste the repository link where we want to push our code.
10. Next we want to check whether we have access for push and pull to check that we can use the command **git remove-v.**
11. To upload the source code we want to use the command **git add.**
12. After that command the file is in temporary memory and ready to push to the Repository.
13. Now we have use the command **commit-m and click on enter**.
14. Finally we have to use git **push origin master command** it will push our selected file to that repository.
15. Then it ask some credentials like git hub username and password then it can interact with the repository that we mentioned.
16. Now we can see that new **branch master is created** and get pushed to that given repository.
17. Now we can see the **file is upload** in the repository.