St. Francis Institute of Technology
Department of Computer Engineering
Five Days Student Development Programme
on
DevOps
(28th June to 2nd July 2021)
List of Assignments

GIT & GITHUB TASK

1. Create a GitHub Account (Use Existing account, if you already have one) (https://github.com/join)

2. Create a remote repository on GitHub and name it **(fullname-rollno)**

3. Perform all the git operations on the local and remote repository

    a. Take screenshots of all the operations. (Screenshots must reflect your name in the GitHub repository and on the bash terminal

4. Refer to the link given to perform various operations. (https://www.atlassian.com/git/tutorials/atlassian-git-cheatsheet)

5. Take screenshots of all the steps and prepare a report for the same. Provide the Link to your public repository in the report

Docker Task

1. Create a Docker Hub Account (https://hub.docker.com/)

2. Create a Dockerfile for your Mini Project or choose from a simple Java Application/ Web application or application of your choice.

3. Create an Image using that Dockerfile and Containerize your application. (Name of the Image and Container should be **(fullname-rollno)**

4. Push the image on Docker Hub Repository and provide the link to it in the report.

5. Take screenshots of all the steps and prepare a report for the same.

Ansible Task

1. Launch two virtual machines having ubuntu and connect them over the same network.
2. Install Ansible on one of the machines
3. Write Ansible playbook for the following tasks

   - Install packages like {postgress-sql, Nginx} on the other machine
   - Create a user name "yourname" in the remote machine
   - Create a folder name "your_Roll_no" in the home directory
   - Uninstall the nano service on remote machine.
   - Take screenshots of the playbook and the play in execution
   - Name the play in the playbook as yourname-rollno
4. Take screenshots of all the steps and prepare a report for the same.
5. Upload the Ansible Playbook in the GitHub Repository you created in the first task