**EXPERIMENT LIST**

**DevOps Lab**

**DIV A, B**

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| --- | --- | --- |
| **SR.NO** | **TITLE** | **DOP [A1 Batch]** |
| **1** | Basic Linux Commands for DevOps | 12/1/2023 |
| **2** | To Understand DevOps practices which aims to simplify software development life cycle | 19/1/2023 |
| **3** | THEORY:  GIT  GITHUB  LIFECYCLE OF GIT  A] Performing Version control with Git.(GIT CHEAT SHEET)  B] Integrating Git with Github.  C] Understand Git Operation in IDE (VSCODE) | 19/01/2023 |
| **4** | Theory:  VM Versus Container  DOCKER  DOCKER HUB  ARCHITECTURE of DOCKER  A] Docker Installation and to Implement Basic Docker Command  and deploy any web application  B] Pushing Docker Images to Docker Repository  C] Writing a Docker File to build your own Docker Images : DockerFile  C1]Dockerize a simple java application  C2] Run a Flask Application which prints “HELLO RAIT” inside a Docker Container.  C3]Write a Dockerfile for creating an nginx image and containerize any web application . | **2/2/2023**  **9/2/2023**  **16/2/2023**  **23/2/2023** |
| **5** | A] How to Install Jenkins on Ubuntu 20.04 / Windows. |  |
|  | B]To understand Jenkins programming (Java/Python/Shell Scripting) |  |
|  | C] To create Jenkins Pipeline |  |
| **6** | Web Automation in Selenium |  |
| **7** | Installation of Ansible on top of AWS instance, Configure SSH access to Ansible Host/Slave and set up ansible host and tested connection |  |
| **8** | Deploy a Web Application by Provisioning LAMP STACK using ANSIBLE Playbook. |  |
| **9** | Deploy a Website Code on the node by Provisioning MYSQL SERVER and DATABASE using ANSIBLE Playbook. |  |
| **10** | CASE STUDY |  |