**Activity 2: Linux File & Directory Operations**

| **S. No** | **Command** | **Description** | **Output** | **Remarks** |
| --- | --- | --- | --- | --- |
| 1 | ls -l | Lists files with details | -rw-r--r-- 1 user user 12 Sep 26 11:00 file1.txt | Details displayed |
| 2 | chmod 777 file1.txt | Changes file permissions | (No output) | Permissions changed successfully |
| 3 | chown user file1.txt | Changes file owner | (No output) | Owner changed successfully |
| 4 | find . -name "\*.txt" | Finds all .txt files | ./file1.txt | File found |
| 5 | df -h | Shows disk usage | Filesystem Size Used Avail Use% Mounted on /dev/sda1 20G 5G 15G 25% / | Disk info displayed |
| 6 | du -sh \* | Shows folder/file size | 12K file1.txt | Size displayed |
| 7 | grep "Linux" file1.txt | Searches for "Linux" | Hello Linux | Word found |
| 8 | head -n 5 file1.txt | Shows first 5 lines | Hello Linux | Lines displayed |
| 9 | tail -n 5 file1.txt | Shows last 5 lines | Hello Linux | Lines displayed |
| 10 | wc -l file1.txt | Counts lines | 1 file1.txt | Line count correct |