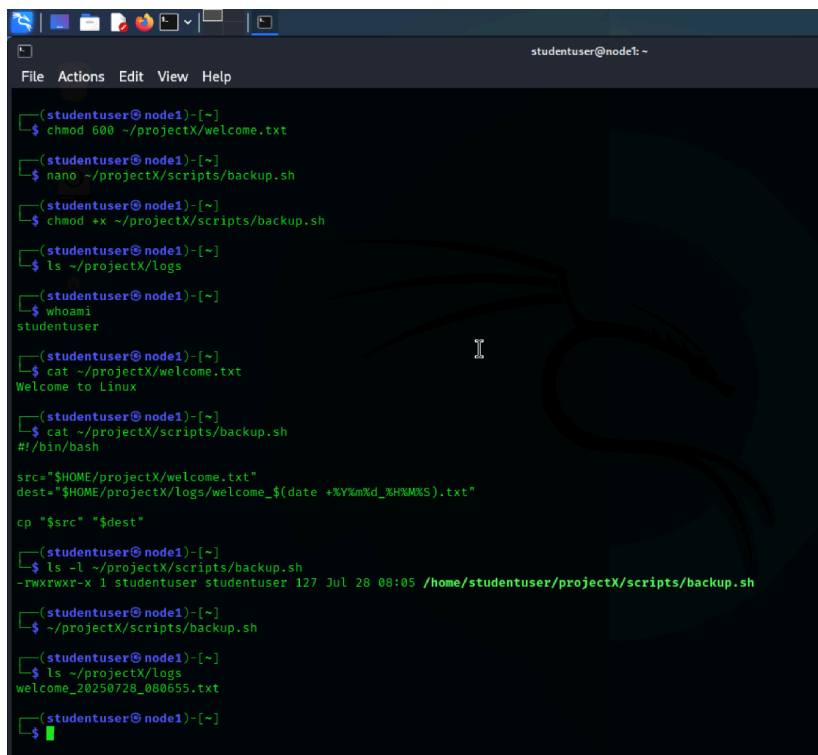


Task 1: Linux Essentials & File Permissions

1. **Create a new user** named studentuser.
2. **Create directories:**
 - /home/studentuser/projectX/logs
 - /home/studentuser/projectX/scripts
3. **Create a file** named welcome.txt inside projectX with the content Welcome to Linux.
4. **Set permissions** so only studentuser can read/write the welcome.txt file.
5. **Create a script** named backup.sh in scripts/ that:
 - Copies welcome.txt to the logs/ folder.
 - Appends a **timestamp** to the copied file name.
6. **Make the script executable** and **run it once** to test.



```
studentuser@node1: ~  
File Actions Edit View Help  
  
(studentuser@node1)-[~]  
$ chmod 600 ~/projectX/welcome.txt  
  
(studentuser@node1)-[~]  
$ nano ~/projectX/scripts/backup.sh  
  
(studentuser@node1)-[~]  
$ chmod +x ~/projectX/scripts/backup.sh  
  
(studentuser@node1)-[~]  
$ ls ~/projectX/logs  
  
(studentuser@node1)-[~]  
$ whoami  
studentuser  
  
(studentuser@node1)-[~]  
$ cat ~/projectX/welcome.txt  
Welcome to Linux  
  
(studentuser@node1)-[~]  
$ cat ~/projectX/scripts/backup.sh  
#!/bin/bash  
  
src="$HOME/projectX/welcome.txt"  
dest="$HOME/projectX/logs/welcome_$(date +%Y%m%d_%H%M%S).txt"  
  
cp "$src" "$dest"  
  
(studentuser@node1)-[~]  
$ ls -l ~/projectX/scripts/backup.sh  
-rwxrwxr-x 1 studentuser studentuser 127 Jul 28 08:05 /home/studentuser/projectX/scripts/backup.sh  
  
(studentuser@node1)-[~]  
$ ~/projectX/scripts/backup.sh  
  
(studentuser@node1)-[~]  
$ ls ~/projectX/logs  
welcome_20250728_080655.txt  
  
(studentuser@node1)-[~]  
$
```