**Bash Scripting Assignment**

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Unit Code: IA616001 - Operating System Concepts

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# Task 1 - User Management Script

Purpose: Automate the creation of users, groups, shared folders, and symlinks based on a CSV file. Script Used: user\_setup.sh

Key Features:

* Reads user data from user.csv
* Automatically creates users and sets password
* Adds to multiple groups
* Creates shared folders and symlinks
* Logs all actions in usercreation.log

Testing Summary:

* Verified users/groups with id and getent
* Checked folder creation and symbolic links
* Successfully re-ran script without duplicate issues

# Task 2 - Backup Script

Purpose: Automate the backup of a specified directory

Script Used: backup\_script.sh

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Key Features:

* Prompts user for source and destination paths
* Creates a .tar.gz archive with timestamp
* Logs all backups to backup.log

Testing Summary:

* Backed up /home/tony.stark to /Assignment1/task2/backups
* Archive verified with ls and tar -tzf
* Log entries validated

# GitHub Integration

* Git initialized locally and pushed to GitHub
* Updated README with setup and usage instructions
* .gitignore used to avoid pushing log and backup files

# Conclusion

* All scripting tasks completed and tested
* Logs and results validated
* GitHub repository prepared
* Project ready for submission

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