Backup Automation Script Project3 Video Walkthrough

Reference:

This script is a formal recreation of the automation demonstrated in `Project3.mp4`.

The complete guide is also available in the accompanying PDF: Backup_Script_Guide.pdf

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Script:

```bash
#!/bin/bash

# === BACKUP SCRIPT ===
# Automates the compression of a specified folder into a zip archive
# Includes timestamp in filename to avoid overwrite and track versions

# Target directory to backup (customize this)
TARGET_DIR="/home/yourname/Projects/myfolder"

# Backup filename with timestamp
BACKUP_NAME="backup-$(date +%F_%H-%M-%S).zip"

# Status update
echo "[+] Starting backup of $TARGET_DIR"

# Perform backup using zip
zip -r "$BACKUP_NAME" "$TARGET_DIR"

# Status update
echo "[+] Backup completed: $BACKUP_NAME"
```

Usage Instructions:

1. Update TARGET_DIR to the folder you want to back up.

2. Save this script as `backup.sh`.

3. Make it executable:

   chmod +x backup.sh

4. Run it from the terminal:

   ./backup.sh

The script will output a zip file named like:

backup-2025-04-23_18-42-10.zip

Use Cases:

- Weekly or daily backups of code or data folders

- Scheduled execution using cron jobs

- Creating multiple timestamped backups without overwrites