Example Shell Scripts (1)

Hello world to the console

```bash
#!/bin/bash
# This script prints "Hello, World!" to the console.

echo "Hello, World!"
```

Add user to local system

```bash
#!/bin/bash
# Script to create a new user on the local system.

# Usage: sudo ./create_user.sh <username> <password>

USERNAME=$1
PASSWORD=$2

# Check for root privileges
if [[ $(id -u) -ne 0 ]]; then
    echo "Please run as root."
    exit 1
fi

# Check for username and password
if [ -z "$USERNAME" ] || [ -z "$PASSWORD" ]; then
    echo "Usage: $0 <username> <password>"
    exit 1
fi
```

```
# Add the user
useradd -m $USERNAME

# Set the password for the user
echo $USERNAME:$PASSWORD | chpasswd

echo "User $USERNAME created and password set."
```

Backup script

```
#!/bin/bash
# A script to create a backup of a specified directory.

# Usage: ./backup.sh <directory_to_backup> <backup_destination_

SOURCE_DIR=$1
DEST_DIR=$2
TIMESTAMP=$(date +%Y%m%d_%H%M%S)
BACKUP_NAME="backup_${TIMESTAMP}.tar.gz"

# Ensure both arguments are provided
if [ -z "$SOURCE_DIR" ] || [ -z "$DEST_DIR" ]; then
    echo "Usage: $0 <source_directory> <destination_directory>"
    exit 1
fi

# Create the backup
tar -czvf ${DEST_DIR}/${BACKUP_NAME} $SOURCE_DIR
echo "Backup of $SOURCE_DIR completed successfully at ${DEST_DIR
```

Process check script

```bash
#!/bin/bash
# Script to check if a process is running and alert if it is not

PROCESS_NAME=$1

if pgrep $PROCESS_NAME > /dev/null
then
    echo "$PROCESS_NAME is running."
else
    echo "Alert: $PROCESS_NAME is not running."
fi
```