

## Assignment -2

### 1. List Files in a Directory

```
#!/bin/bash

# Check if directory path is provided

if [ -z "$1" ]; then

    echo "Usage: $0 <directory_path>"

    exit 1

fi


# Check if the argument is a directory

if [ -d "$1" ]; then

    echo "Files in directory $1:"

    ls -p "$1" | grep -v /

else

    echo "Error: $1 is not a valid directory."

    exit 1

fi
```

```
root@fedora:/home/abel# ./files_list.sh /home/abel/
Files in directory /home/abel/:
check_ssh.sh
files_list.sh
login_time.sh
newuser.sh
pass_check.sh
```

## 2. Rename .txt Files with "backup\_"

```
if [ ! -d "$1" ]; then
    echo "Error: $1 is not a valid directory."
    exit 1
fi

# Rename .txt files
for file in "$1"/*.txt; do
    [ -e "$file" ] || continue # Skip if no .txt files
    base=$(basename "$file")
    mv "$file" "$1/backup_$base"
done
```

```
root@fedora:/home/abel/Desktop# ll
total 4
-rwxr-xr-x. 1 root root 256 Aug  7 18:07 backup.sh
-rw-r--r--. 1 root root  0 Aug  7 18:07 test.txt
root@fedora:/home/abel/Desktop# ./backup.sh /home/abel/Desktop/
root@fedora:/home/abel/Desktop# ll
total 4
-rwxr-xr-x. 1 root root 256 Aug  7 18:07 backup.sh
-rw-r--r--. 1 root root  0 Aug  7 18:07 backup_test.txt
root@fedora:/home/abel/Desktop#
```

### 3. Compare Two Files

```
#!/bin/bash
```

```
# Check if two file paths are given
```

```
if [ $# -ne 2 ]; then
```

```
    echo "Usage: $0 <file1> <file2>"
```

```
    exit 1
```

```
fi
```

```
# Check if files exist
```

```
if [ ! -f "$1" ] || [ ! -f "$2" ]; then
```

```
    echo "One or both files do not exist."
```

```
    exit 1
```

```
fi
```

```
# Compare files
```

```
if cmp -s "$1" "$2"; then
```

```
    echo "The files are identical."
```

```
else
```

```
    echo "The files are different. Differences:"
```

```
    diff "$1" "$2"
```

```
fi
```

```
root@fedora:/home/abel/Desktop# ./compare.sh a.txt b.txt
The files are different. Differences:
1c1
< Hii
---
> Hello
root@fedora:/home/abel/Desktop#
```