Assignment3

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Here is the source code:

```bash
#!/bin/bash

if [[ $# == 0 ]]; then
    echo "Usage:myArchive [-t targetDir] [-a arcDir] <extension-list>."
    exit
fi

#default target directory and default archive directory
targetDir=./
arcDir=./arcDir

#Modify the two directories according to the parameters
while getopts 'a:t:' OPT; do
    case $OPT in
        a) arcDir="$OPTARG";;
        t) targetDir="$OPTARG";;
        ?) echo "One parameter is wrong";;
    esac
done

#if archive directory don't exist create one
if [[ ! -d "$arcDir" ]]; then
    mkdir $arcDir
fi

#check if target-directory exists and if it has write permission
if [[ ! -w "$targetDir" ]]; then
    echo "the target directory is wrong"
    exit
fi


echo "target directory: $targetDir"
echo "archive Directory: $arcDir"
```

```
for extension in "$@"
do
    if [[ $extension != "-a" && $extension != "-t" && $extension != "$targetDir" &&
$extension != "$arcDir" ]];
    then

    echo "extension: $extension"
    find $targetDir -name "*.$extension" | xargs -i mv {} $arcDir        #searches all files
whose extensions are "$extension" then move them

    fi
done
```
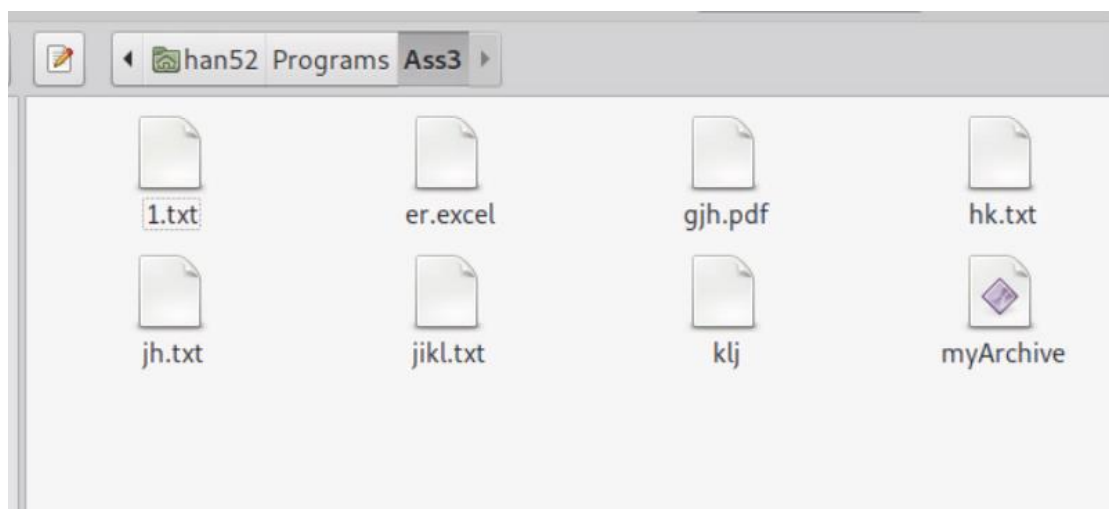
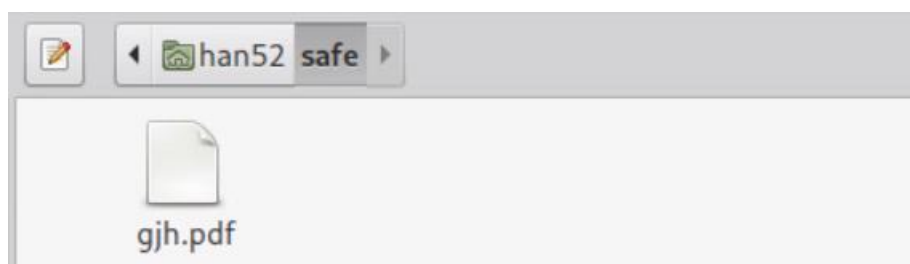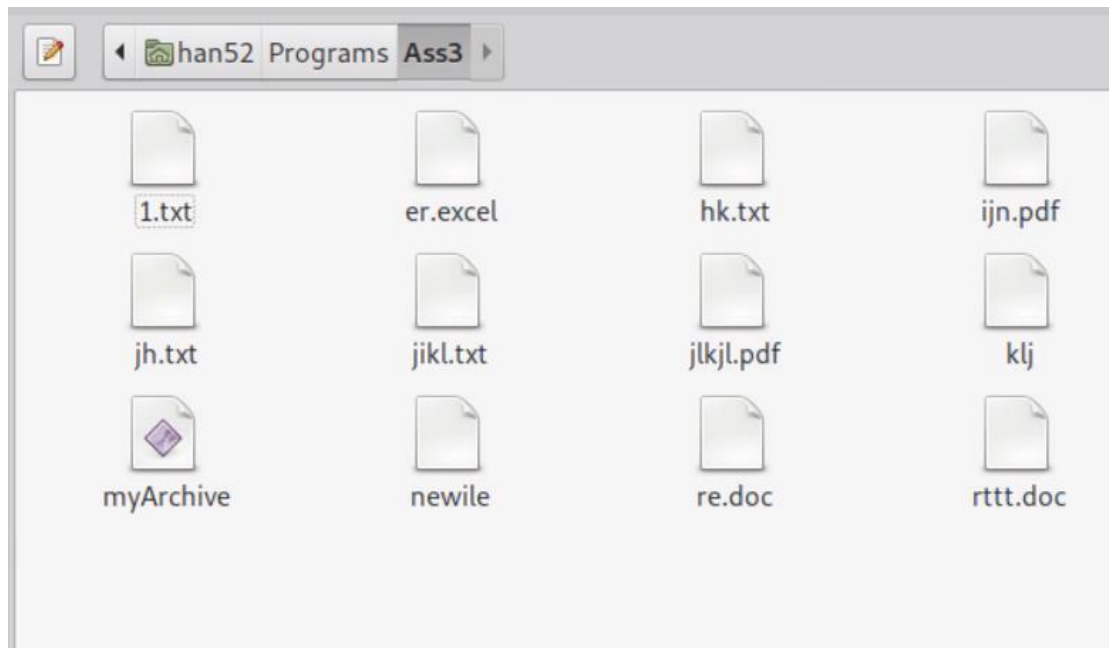# Below are some results of my Assignment:
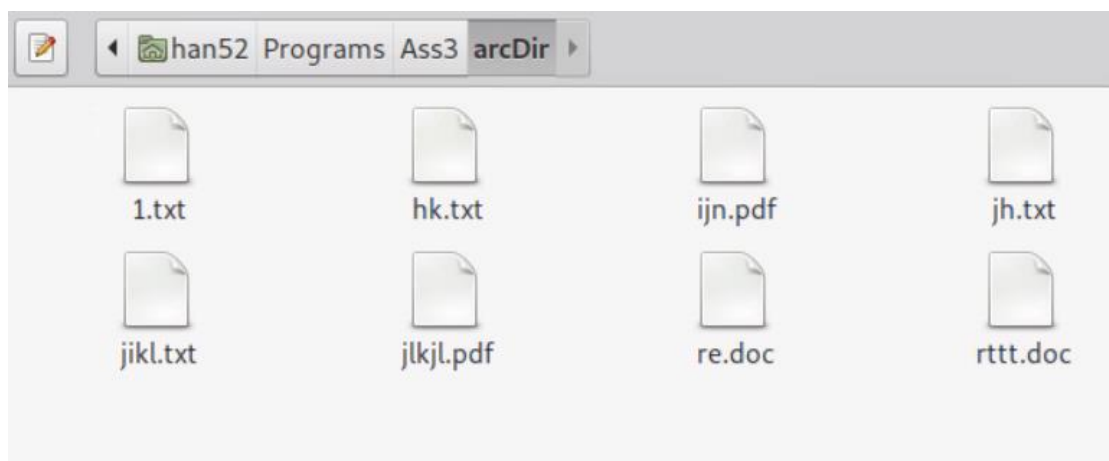
Case1:
Original:

Command

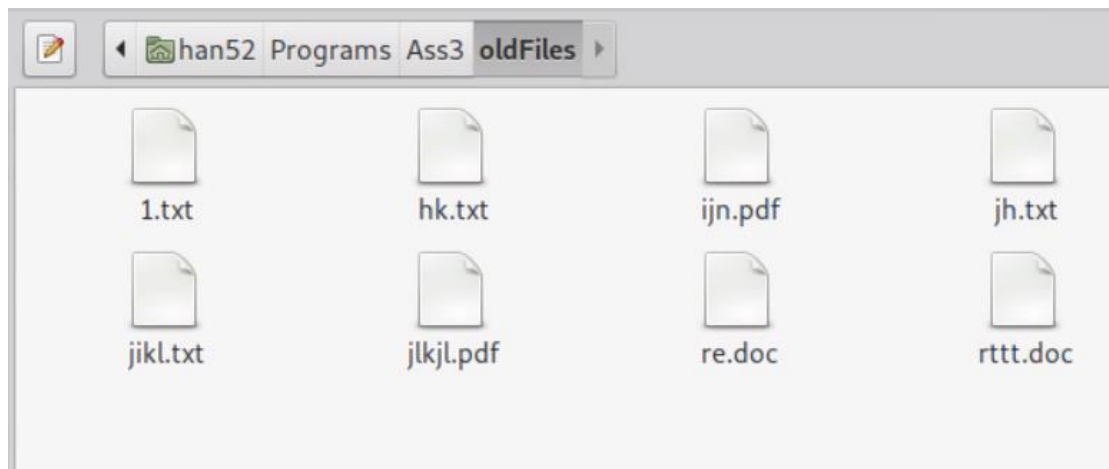
Result

Case2

Original:

Command:

```
han52@alpha:~/Programs/Ass3$ ./myArchive pdf doc txt
target directory: ./
archive Directory: ./arcDir
extension: pdf
extension: doc
extension: txt
```

Result:

Case3:

Original:

Command:

```
han52@alpha:~/Programs/Ass3$ ./myArchive -a ~/safe -t oldFiles pdf
target directory: oldFiles
archive Directory: /home/han52/safe
extension: pdf
```

Result: