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#!/bin/bash
#version A

# create Outer_Directory
echo "Outer_Directory created"
mkdir Outer\_Directory

# move there
cd Outer\_Directory

# create the files
for i in {1..14}
do
    fname="proj"$i"_file"
    x=$((100*i))
    echo "generated value=$x" > $fname
    i=$((i+1))
    x=$((100*i))
    a="proj"$i"_file"
    echo "Next file is $a with generated value=$x" >> $fname
done
echo "generated value=1500" > proj15_file
echo "Next file does not exist" >> proj15_file

# list contents of all created files in a loop
echo "Created files"
for i in {1..15}
do
    fname="proj"$i"_file"
    echo "$fname:"
    cat $fname
done

# create Inner_Directory
echo "Inner_Directory created"
mkdir Inner\_Directory

# move all created files containing '3' or '6' to Inner_Directory
for i in {1..15}
do
    fname="proj"$i"_file"
    x=`grep '3\|6' $fname`
    if [ -n "$x" ]
    then
        mv $fname Inner\_Directory
    fi
done

# display regular files in Outer_Directory
echo "Outer_Directory regular files"
x=`ls`
for i in $x
do
    if [ -f $i ]
    then
        echo $i
    fi
done

# display regular files in Inner_Directory
echo "Inner_Directory regular files"
cd Inner\_Directory
x=`ls`
```

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for i in $x
do
  if [ -f $i ]
  then
    echo $i
  fi
done

#concatenate all created files in Inner_Directory into a file EVERYTHING
first=1
for i in {1..15}
do
  fname="proj"$i"_file"
  if [ -f "$fname" ]
  then
    if [ first = 1 ]
    then
      cat $fname > EVERYTHING
      first=0
    else
      cat $fname >> EVERYTHING
    fi
  fi
done

# remove all created files from Inner_Direcory
for i in {1..15}
do
  fname="proj"$i"_file"
  if [ -f "$fname" ]
  then
    rm $fname
  fi
done

# display all files in Inner_Directory
ls

# cleanup
cd ..
rm Inner\_Directory/*
rmdir Inner\_Directory
echo "Inner_Directory and all its files removed"
cd ..
rm Outer\_Directory/*
rmdir Outer\_Directory
echo "Outer_Directory and all its files removed"

# show current directory
echo "Current Directory"
ls
```