#!/bin/bash

#

#

#

# Script Name : Fileinfo.sh

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# Date: 20/06/2014

#

# Exitting Function For Script

# (This Function allocates a process ID number To The Script which is Launched, to the variable $TOP\_PID. So when the "closeloop8" Function is activied, within the script, it then kills that process ID. # which is this script, which in turn shut down or terminates the current script running.)

#

#

**trap "**exit 1**" TERM**

**export TOP\_PID=$$**

**function** closeloop8()

{

**echo ""**

**kill -s TERM $TOP\_PID**

}

#

#

#Colour Variables

#

**SET** Colour Wh='\e[0;37'm # White Default Colour

#

**SET** Colour BR='\e[1;31'm # Red options

**SET** Colour BG='\e[1;32'm # Green Selection

**SET** Colour BP='\e[1;35'm # Purple Display titles

**SET** Colour BB='\e[1;34'm # Blue exit

**SET** Colour BY='\e[1;33'm # Yellow mistakes

#

#

# Touch makes files in Linux, These files will store all the results from the Read , Write & Executable analysing.

#

**Make File** (touch) rw\_Finfo.txt #Read & Writable Files

**Make File** (touch) rwx\_Finfo.txt #Read, Writable & Executable Files

**Make File** (touch) r\_Finfo.txt #Readable Files

**Make File** (touch) w\_Finfo.txt #Writable Files

**Make File** (touch) x\_Finfo.txt #Executable Files

**Make File** (touch) rx\_Finfo.txt #Read & Executable Files

**Make File** (touch) wx\_Finfo.txt #write & Executable files

#

# Echo “$clear” > "" clears the existing Results files each time the script loads

#

**CLEAR Contents** > rw\_Finfo.txt

**CLEAR Contents** > rwx\_Finfo.txt

**CLEAR Contents** > r\_Finfo.txt

**CLEAR Contents** > w\_Finfo.txt

**CLEAR Contents** > x\_Finfo.txt

**CLEAR Contents** > rx\_Finfo.txt

**CLEAR Contents** > wx\_Finfo.txt

**WAIT 2**

#

# Counts Total files below in Directory variable

#

**STORE Calculation,** **Total Number Of Files** To counttotal="`ls -l | grep ^- | cut -f1 -d" "| cut -c 2-4 | wc -l`"

#

# While Loop Variable in order to loop and exit the menu.

#

**SET** Loop exloop8=4

#

#Starts the count variable for the loop

#

**SET** Count To count=0

#

#

**CLEAR Screen**

**DISPLAY -e** "Total Files To Look at = ${BR}$counttotal${Wh}"

**WAIT 5**

**DOWHILE** [ exloop8 = 4 ]

#

# starts counting

#

**DISPLAY**

**DISPLAY**

**DISPLAY -e** "${BG}$count${Wh}"

**ADD 1 To** $count (( count++ ))

**CLEAR Screen**

**DISPLAY -e** "Total Files To Look at = ${BR}$counttotal${Wh}"

**DISPLAY**

**DISPLAY**

**DISPLAY -e** "File Number = ${BR}$count:${Wh}"

**DISPLAY**

#

# Variable to display and analyse the permissions of each file

#

**SET LINE TO COUNT** For Permissions analysing displayrwx="`ls -l | grep ^- | cut -f1 -d" " | cut -c 2-4 | sed -n ''$count'p'`"

**DISPLAY**

**DISPLAY**

**DISPLAY** $displayrwx

**DISPLAY**

#

# Case Menu Below to analyse the permission variable’s of each file in the directory

#

**CASE** "displayrwx"

#

# Permission Variable for Read files

#

**OUTPUT** r--)

**DISPLAY -e** "${BR}Readable${Wh} File shown below"

**DISPLAY** ""

**SET LINE COUNT** For Permissions analysing File\_name\_countr="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countr', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY** -e ${BG}$File\_name\_countr${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'r\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countr" >> r\_Finfo.txt # (echo) Copy’s the results to the file r\_Finfo.txt

;;

#

# Permission Variable for Read, Executable files

#

**OUTPUT** r-x)

**DISPLAY -e** "${BR}Read, & Executable${Who} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countrx="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countrx', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countrx${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'rx\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countrx" >> rx\_Finfo.txt # (echo )Copy’s the results to the file rx\_Finfo.txt

;;

#

# Permission Variable for Write & Execuable Files

#

**OUTPUT** -wx)

**DISPLAY -e** "${BR} Writeable & Executable ${Wh} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countwx="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countwx', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countwx${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'wx\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countwx" >> wx\_Finfo.txt # (echo) Copy’s the results to the file wx\_Finfo.txt

;;

#

# Permission Variable for Read, Write Executable files

#

**OUTPUT** rwx)

**DISPLAY -e** "${BR}Read, Write & Executable${Who} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countrwx="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countrwx', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countrwx${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'rwx\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countrwx" >> rwx\_Finfo.txt # (echo )Copy’s the results to the file rwx\_Finfo.txt

;;

#

# Permission Variable for Read, Write

#

**OUTPUT** rw-)

**DISPLAY -e** "${BR}Read & Writeable${Wh} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countrw="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countrw', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countrw${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'rw\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countrw" >> rw\_Finfo.txt # (echo) Copy’s the results to the file rw\_Finfo.txt

;;

#

# Permission Variable for Writable files

#

**OUTPUT** -w-)

**DISPLAY -e** "${BR}Writeable${Wh} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countw="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countw', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countw${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'w\_Finfo.txt'"

**DISPLAY**

**COPY** "$File\_name\_countw" >> w\_Finfo.txt # (echo) Copy’s the results to the file w\_Finfo.txt

;;

#

# Permission Variable for Executable files

#

**OUTPUT** --x)

**DISPLAY -e** "${BR}Executable${Wh} File shown below"

**DISPLAY**

**SET LINE COUNT** For Permissions analysing File\_name\_countx="`ls -pQ | grep -v / | sed -n ''$count'p'`" # Set the variable 'File\_name\_countx', which is current file being analysed to the count.

**DISPLAY**

**DISPLAY -e** ${BG}$File\_name\_countx${Wh} #Displays the Name of the file.

**DISPLAY**

**DISPLAY** "Copying result to File 'rw\_Finfo.txt'"

**DISPLAY**

**COPY**  "$File\_name\_countx" >> x\_Finfo.txt # (echo) Copy’s the results to the file x\_Finfo.txt

;;

#

# End Of Case Menu For analyse the permission variables of each file in the directory of each file in the directory

#

**ENDCASE**

**DISPLAY**

**DISPLAY**

**DISPLAY**

**DISPLAY**

#

# To Exit The analysing of permission variables for all the files within the directory

#

**IF Total file** [ "count" = "counttotal" ]

**THEN**

**DISPLAY**

**DISPLAY**

**DISPLAY -e** "${BP}Entering The Results Menu${Wh}"

**WAIT 4**

**DISPLAY**

**DISPLAY**

**EXECUTE**

./disrwxmenu.sh

**ENDIF**

**ENDO**