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Task 1
Consider the following scripts. Explain what means each line within these scripts.
Explain what happens when you execute these scripts with and without input
arguments.
#!/bin/bash
# Script 1
for FN in "$@"
do
chmod 0750 "$FN"
done
#For loop. FN = Variable.
#"$@" is a shell variable which expands to a list of all arguments passed to the script
#chmod 0750 "$FN" - changes permisson on a file
# First number is for special privileges. In this case there are no privileges.(0)
#Second number describes the right of the owner. He has allthe rights to do whatever he
#wants (7)
#Third number is about group rights. The group is allowed to read and execute it (5)
#Fourth number declares the rights of other users. In this case they have no rights(0)
# The scripts takes the given arguments and tries to change the permisson of the given
file. If there is no file given → error
#7 - full rights
#6 - read and write
#5 - read and execute
#4 - just read
#3 - write and execute
#2 - just write
#1 - just execute
#0 - no rights
Special bit(first bit):
#4 - SUID (set user of the directory)
#3 - SGID (set groupd of the directory)
#2 - just Owner is allowed to delete and rename folders
#1 - nothing
#!/bin/bash
# Script 2
if (($\# < 3))
printf "%b" "Error. Not enough arguments.\n" >&2
printf "%b" "usage: myscript file1 op file2\n" >&2
exit 1
elif (($# > 3))
then
printf "%b" "Error. Too many arguments.\n" >&2
printf "%b" "usage: myscript file1 op file2\n" >&2
exit 2
else
printf "%b" "Argument count correct. Proceeding...\n"
#S# - Number of arguments
#if command
#fi end of if command
#%b = backspace
#>&2 standard error output. >&1 would be standard output
#The scripts counts the number of given arguments and prints a specific message.
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#!/bin/bash
# Script 3
INFILE=$1
OUTFILE=$2
if [-e "$INFILE"]
then
       if [-w "$OUTFILE"]
       then
       cat "$INFILE" >> "$OUTFILE"
       else
       echo "can not write to $OUTFILE"
else
echo "can not read from $INFILE"
fi
#$1 first argument from command line
#$2 second argument from command line
#-e "File" → TRUE if File exists
#-w exists and is writeable
#This scripts copies the content from file1 to file2 if it is possible. Otherwise it
#will give out an error message.
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