

Advanced Bash Shell Scripting – Solutions

Lab 1: Putting Case Statements into Practice

```
#!/bin/bash
# caseExample will accept a number between 1 and 12 as
# an argument to this script, then return the
# the name of the month that corresponds to that number.
# Demonstrates the use the of the case statement.
# Check to see if the user passed a parameter.
if [ $# -eq 0 ]
then
    echo "Error. Please pass an arguement that is a"
    echo "number between 1 and 12."
    exit 1
fi
# set numb equal to argument passed for use in the script
numb=$1
# The example of a case statement:
case $numb in
1)
echo "January"
;;
echo "February"
;;
3)
echo "March"
;;
4)
```

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```
echo "April"
5)
echo "May"
;;
6)
echo "June"
7)
echo "July"
;;
8)
echo "August"
9)
echo "September"
;;
10)
echo "October"
;;
11)
echo "November"
;;
12)
echo "December"
*)
    echo "Error. No month matches that number"
    echo "Please pass an arguement that is a"
    echo "number between 1 and 12."
    exit 2
    ;;
esac
exit 0
```

Lab 2: Script Arguments and Usage Information

```
#!/bin/bash
##
# usageExample will accept a directory name then return it
# back to the user. If no argument is given a usage message
# is returned
```

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Lab 3: Randomness

```
#!/bin/bash
# randomExample will accept a word then return it
# back to the user with with a random number as part
# of the word If no argument is given a usage message
# is returned
## Can be used, for example, to provide random files names
# check to see if they user put in the parameter.
if [ $# -eq 0 ]
then
    echo "Usage: randomExample word"
     exit 1
fi
randNumb=$RANDOM
echo "$1-$randNumb"
**************************************
exit 0
```

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Lab 4: Strings

```
#!/bin/bash
##
## stringsLab
## demonstrates some strings operations
## does not test the input for blank lines
## get two strings from the user
echo "Enter in a string: "
read mystring1
echo "Enter in a second string: "
read mystring2
#-----
## test command
echo "Is string 1 zero length? Value of 1 means FALSE"
test -z $mystring1
echo $?
echo "Is string 2 nonzero length? Value of 0 means TRUE;"
test -n $mystring2
echo $?
## demonstrates comparing the lengths of two string
##
myLen1=${#mystring1}
myLen2=${#mystring2}
if [ $myLen1 -gt $myLen2 ]
echo "String 1 is longer than string 2"
if [ $myLen2 -gt $myLen1 ]
echo "String 2 is longer than string 1"
echo "String 1 is the same length as string 2"
fi
```

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fi

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