EECS 2032

Lab 2
Fall 2021

In this lab, you will write a number small shell scripts dealing with loops, conditional statements, and Linux commands. The lab should be submitted as **submit 2032E LAB2 file_name**

Problem 1

Write a shell script that takes two parameters (string and a file name). The string does not include any spaces or special characters. The file name is a file in the current directory. You run it as

lab2_1.sh word file_name

If the file does not exist in the current directory, it should display

file_name does not exist

Where *file_name* is the name of the file you supplied as the second command line argument.

If the file does exist, but is a directory, it display

file_name is a directory

Otherwise it display one of two possible outputs

word does exist in *file_name*
or
word doesn't exist in *file_name*

where *word* is the first command line argument (parameter).

Keep in mind that is the only thing your program should display, not even anerror message more than what I showed above.

File name is **lab2_1.sh**

Problem 2

Write a shell script that reads two numbers on the same line (no prompt).
If the numbers are equal it display

These two numbers are equal

If you read one or zero numbers, you display

You should enter two numbers.

If the two numbers are not equal, if the bigger number is *n* times the smaller one, display

big_num is *n* times *small_num*

where *big_num* is the bigger of the two numbers, and *small_num* is the smaller number

Otherwise, display

No relation

Submit as lab2_2.sh

Problem 3

Write a bash scripts that accepts a variable number of arguments/parameters.
The script prints the parameters on the same line with 2 spaces between consecutive parameters.
Then it reads an integer.
If that integer is smaller than all the parameters, it prints

the_number_read is smaller than any parameter

where *the_number_read* is the integer you read.
If the integer is larger than all the parameters, it displays

the_number_read is larger than any parameter

where *the_number_read* is the integer you read

submit as lab2_3.sh