ESE 2025 Week 6 Report - Bash

Instructor:

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Introduction

Discussion

Question 1

a. Write a Bash script that accepts the user's name and prints out a "Hello <user name>!" greeting.

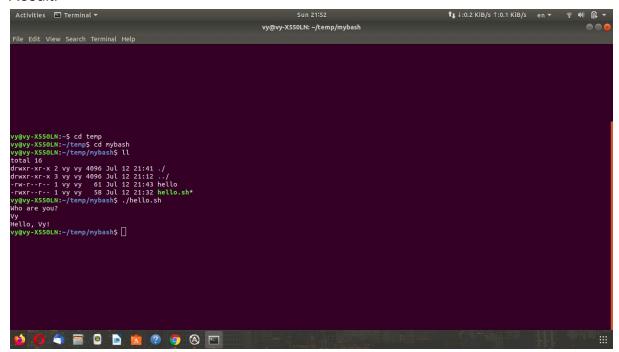
After creating a bash file, the script for it can be written like this

```
#!/bin/bash
echo Who are you?
read who
echo Hello, $who!
```

where "who" is a variable.

Result:

Script:



b. write a Bash script that searches the user's Documents/ folder for a file name "ese2025.txt"; if the file does not exist, create the file with string "Found First!". If the file exists, append the string "Found Again!" to the file. End your script by sending the contents of the ~/Document/ese2025.txt file to standard output.

```
#!/bin/bash

pwd
if [ -e ese2025.txt ]
then
```

```
echo "Found Again" | tee -a ese2025.txt
else

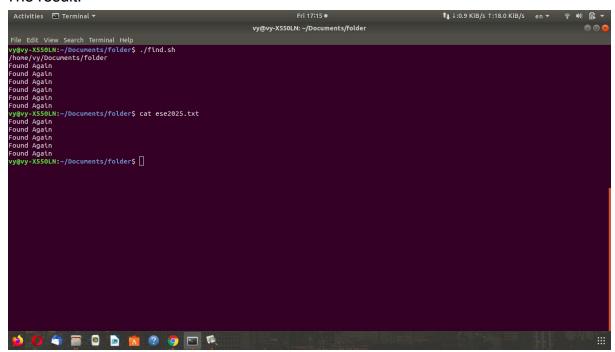
touch ese2025.txt
echo "Found First" | tee -a ese2025.txt

fi
cat ese2025.txt
```

-e is used to check if the file "ese2025.txt" exists. Then write the content to ese2025.txt by using tee -a, -a means append.

cat ese2025.txt is used to display the content from the file.

The result:



Comment:

After running ./find.sh the result showing 6 lines of "Found Again" because in the bash file itself, we have it to print out "Found Again" (echo).

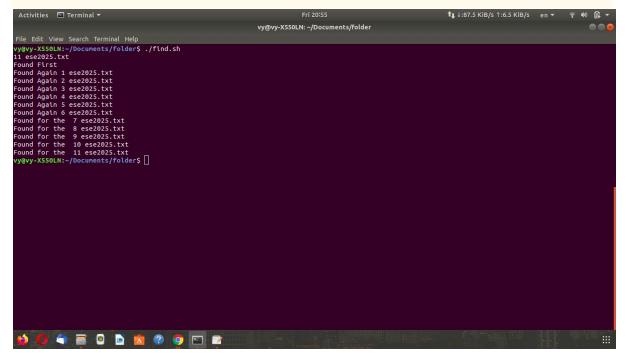
When checking the ese2025.txt with cat, manually, we see only 5 lines that are written in the text file.

c. Augment the functionality of the Bash script from b) by changing "Found Again!" to "Found for the <n>th time!" where n represents the number of times that the file has been found.

Answer:

With each time access to the bash script file, it will print out a line without overwriting the content. Then, we use wc -l to count the line, that is how we solve this problem bash script:

#!/bin/bash



d. using the Linux sort command (get information by typing "man sort"), write a Bash script that sorts 7 names entered by the user as command-line arguments. Note that if the user attempts to enter more than 7 strings, your Bash script exits with an error code 42 and the message "incorrect usage: no more than 7 elements allowed"!

Answer:

In this script, I used for loop, where it started from i = 1 to i = 8. When it is less than 8, the name will be read from the terminal. When I equal to 8, error happens.

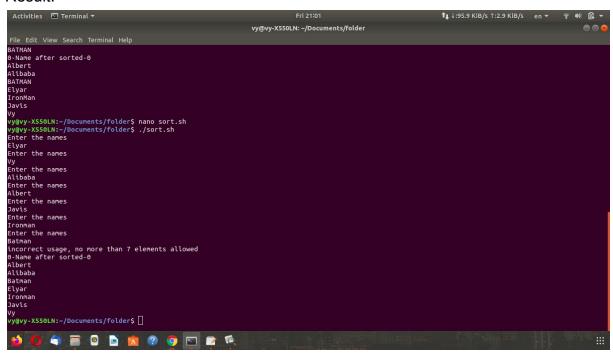
```
echo $name >> sort.txt
elif [ $i == 8 ]
then

echo "incorrect usage, no more than 7 elements
allowed"
fi
done
echo "0-Name after sorted-0"
sort sort.txt
```

>sort sort.txt is used to clear all the previous content in the sort.txt file.

Comment: I should use the while condition for this problem instead.

Result:



Summary:

This report sums up some of the basic commands when working with Linux system. Some improvement should be made for better result and performance.

Appendix:

```
a.
#!/bin/bash
echo Who are you?
read who
echo Hello, $who!
b.
#!/bin/bash

pwd
if [ -e ese2025.txt ]
```

```
then
```

```
echo "Found Again" | tee -a ese2025.txt
touch ese2025.txt
echo "Found First" | tee -a ese2025.txt
cat ese2025.txt
#!/bin/bash
if [ -e ese2025.txt ]
then
echo -n "Found for the " >> ese2025.txt | wc -l ese2025.txt
tee -a ese2025.txt
else
touch ese2025.txt
echo "Found First" | tee =a ese2025.txt
fi
cat ese2025.txt
#!/bin/bash
>sort.txt
for ((i=1;i<8;i++))
do
if [ $i -lt 8 ]
then
 echo "Enter the names"
read name
echo $name >> sort.txt
elif [ $i == 8 ]
then
echo "incorrect usage, no more than 7 elements
allowed"
fi
done
echo "0-Name after sorted-0"
```