CYSE 270: Linux System for Cybersecurity
Lab 8 – Shell Scripting
(Total 100 Points)
Please refer to the slides for week 8 - Shell scripting and write shell scripts to complete
the following tasks. Submit the screenshot for the script and its output, both.
NOTE: Please replace the name of the script with the name you used for the script. In the
sample screenshot, I have used those names to create my script.
Step-1: Use vi or nano editor to write your script (Ex, vi YourScriptName.sh) for the
following tasks.
Step-2: After saving the script, save and exit out of the editor and make the script
executable by adding execute permission (chmod +x YourScriptName.sh)
Step-3: Run your script using ./YourScriptName.sh

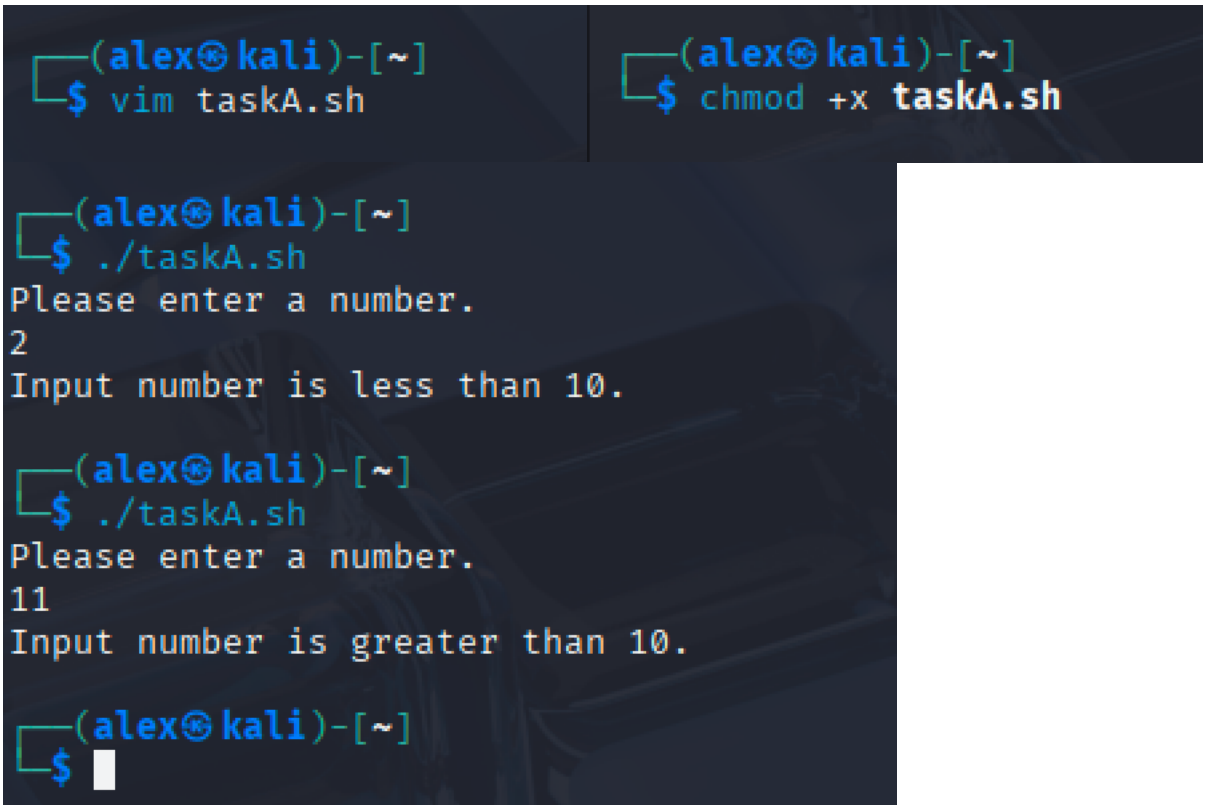
Task A (Correct script (25 points) + result/output after executing the script (25 points)-
Conditional Statement
Write a shell script using nano or vi editor (eg, vi scriptname.sh) like below, that performs
the following task:

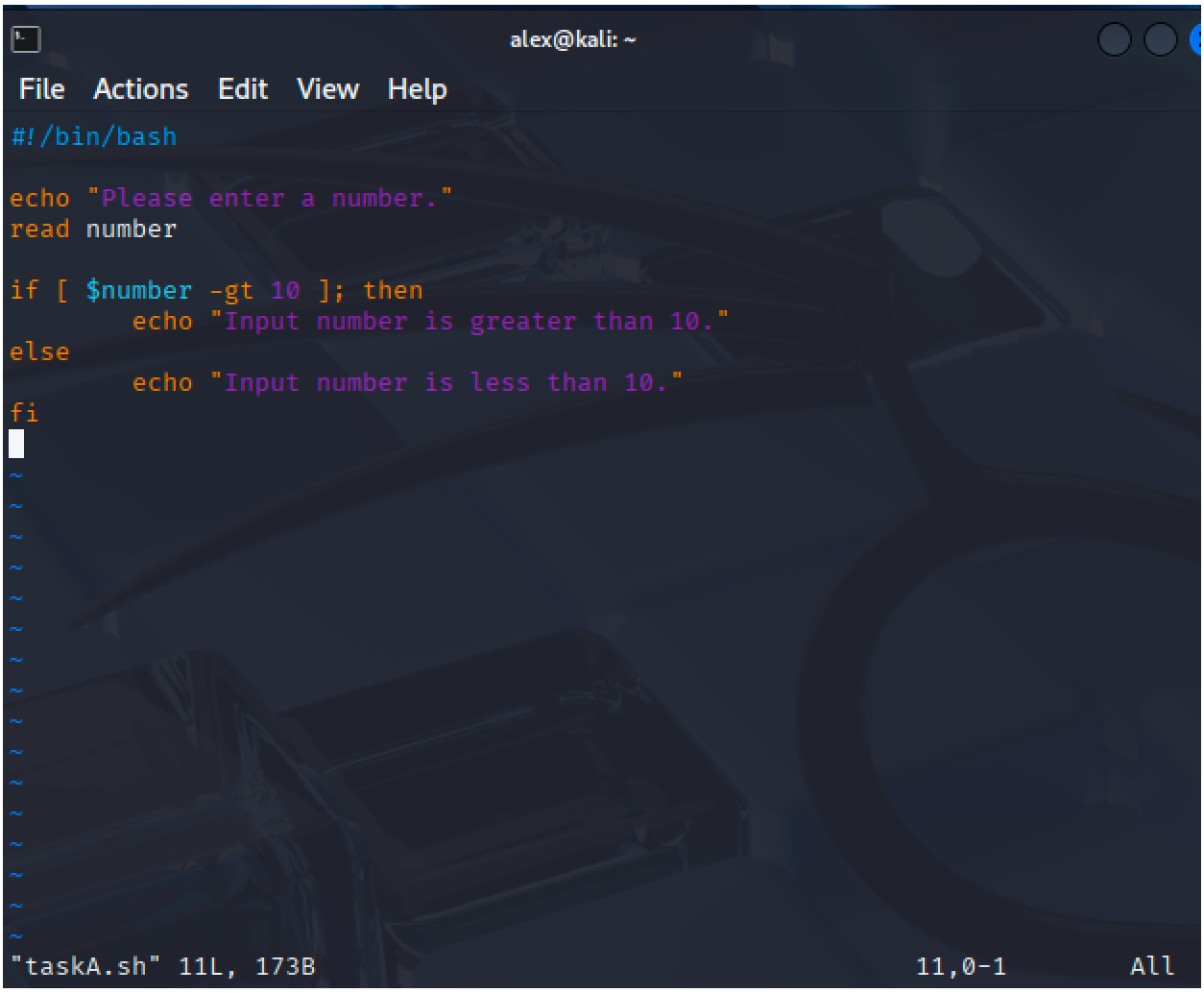
1. Add the Shebang (#!/bin/bash) as the first line in your script.

2. Read a number using read function

3. Using if statement, check if the input number is greater than 10, then print the message
“Input number is greater than 10”

4. If the number is not greater than 10, then print the message, “Input number is not
greater than 10”





Task B (Correct script (25 points) + result/output after executing the script (25 points) -

Shell Script to Create a new file

Write a shell script using nano or vi editor (eg, nano scriptname.sh) like below, that performs the following task:

1. Add the Shebang (#!/bin/bash) as the first line in your script.

2. Reads the name of the file to check for a filename that exists.

3. Check whether the given input is a directory or regular file.

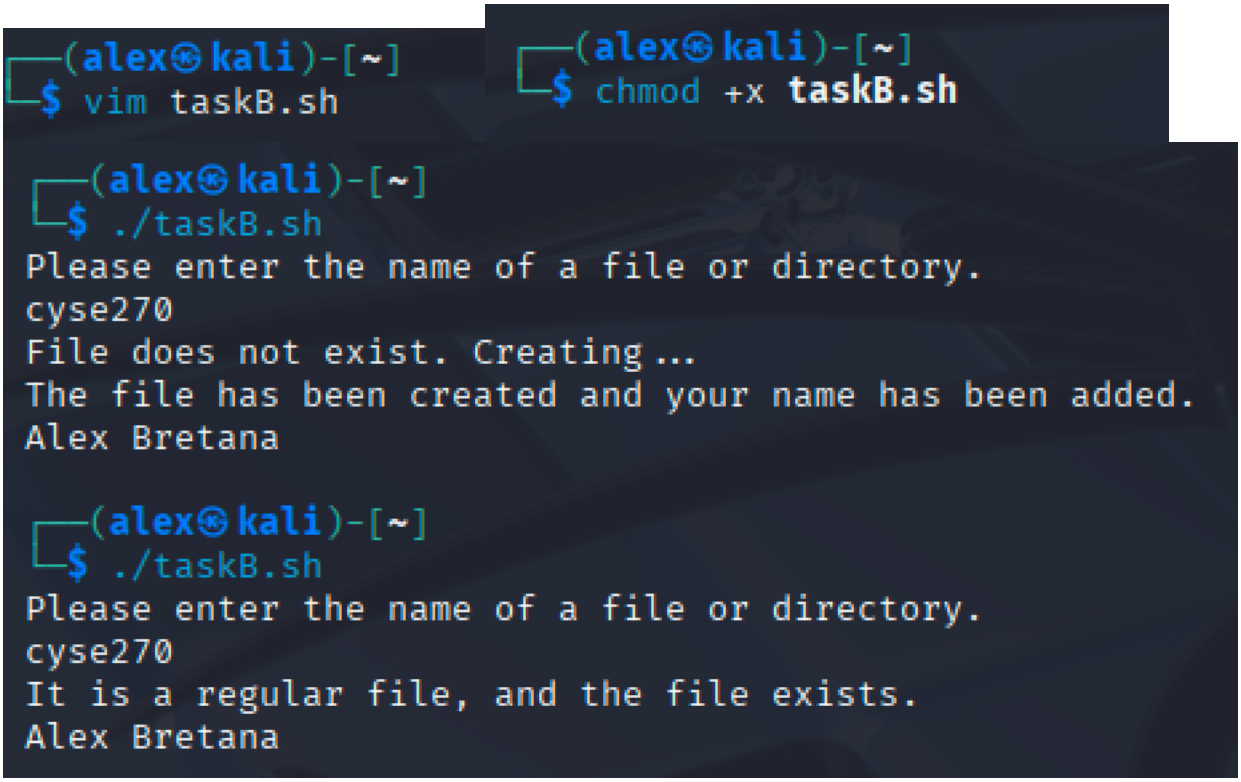
4. If the input is a directory and exists, then display the message “Directory exists”.

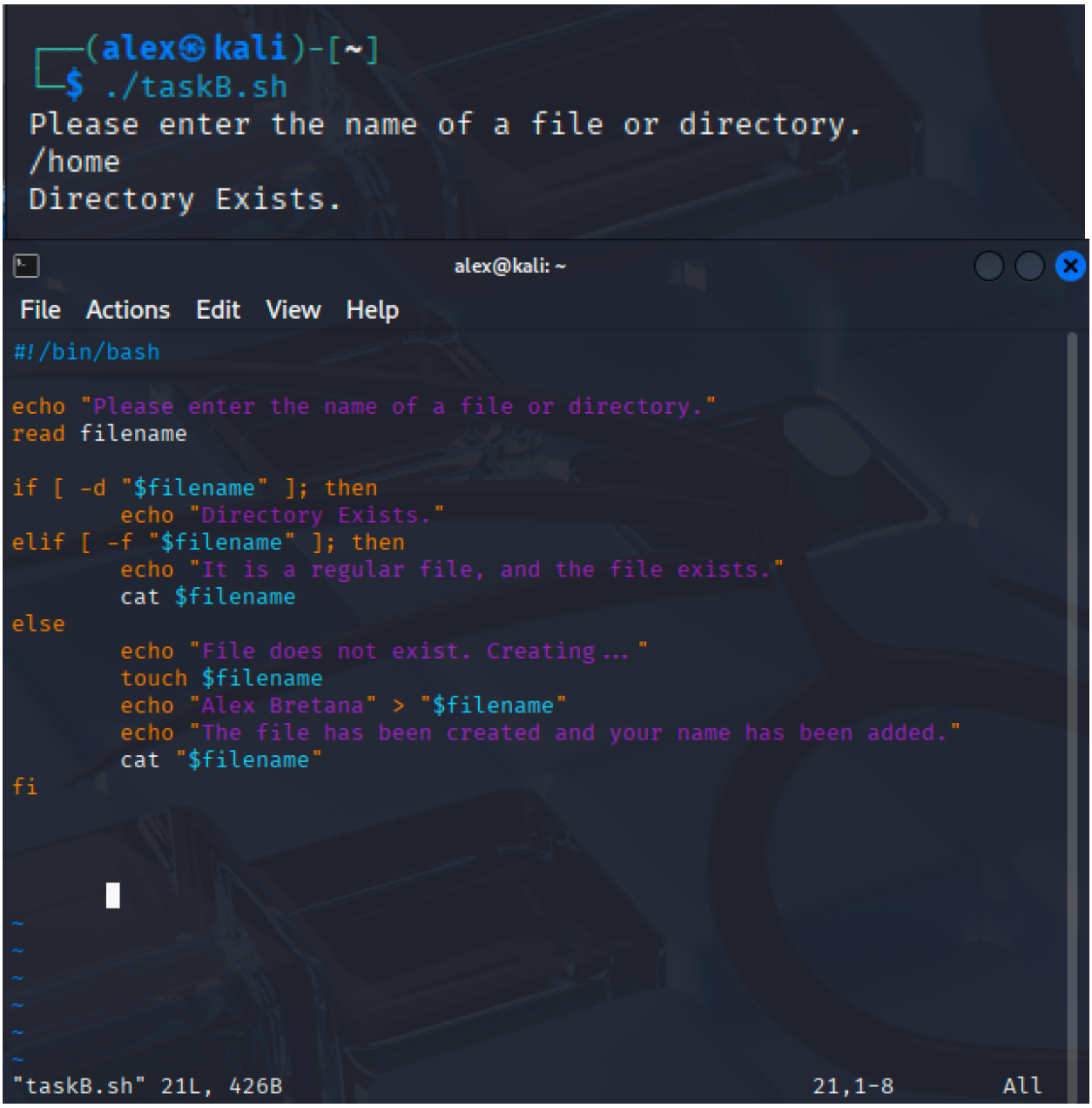
5. If the input is a regular file, then display the message “It is a regular file, and the file
exists” and display the contents of the file.

6. If the given input name in step-1 doesn’t exist, then create the new file with the given
name in step-1.

(Extra credit: 10 points) Add your name to the file (using redirection operator ‘>’) and
display the contents for the newly created file.

7. Save and exit the editor and remember to make the script executable using the command chmod +x scriptname.sh)





Extra Credit (15 points)- Check Directory

Write a script like below that

1. Reads Two variables- your name and the name of the directory as input.

2. Your script should check for the validity of the given directory name, if the entered filename is a directory, then display its contents

3. If the directory doesn't exist, then print an error message "Sorry, the entered directory name is not a valid directory name."

4. You need to execute your script and test the following directories to test with your script

- /etc/systemd
- /home
- A directory that does not exist

Display the contents for the directories you have entered