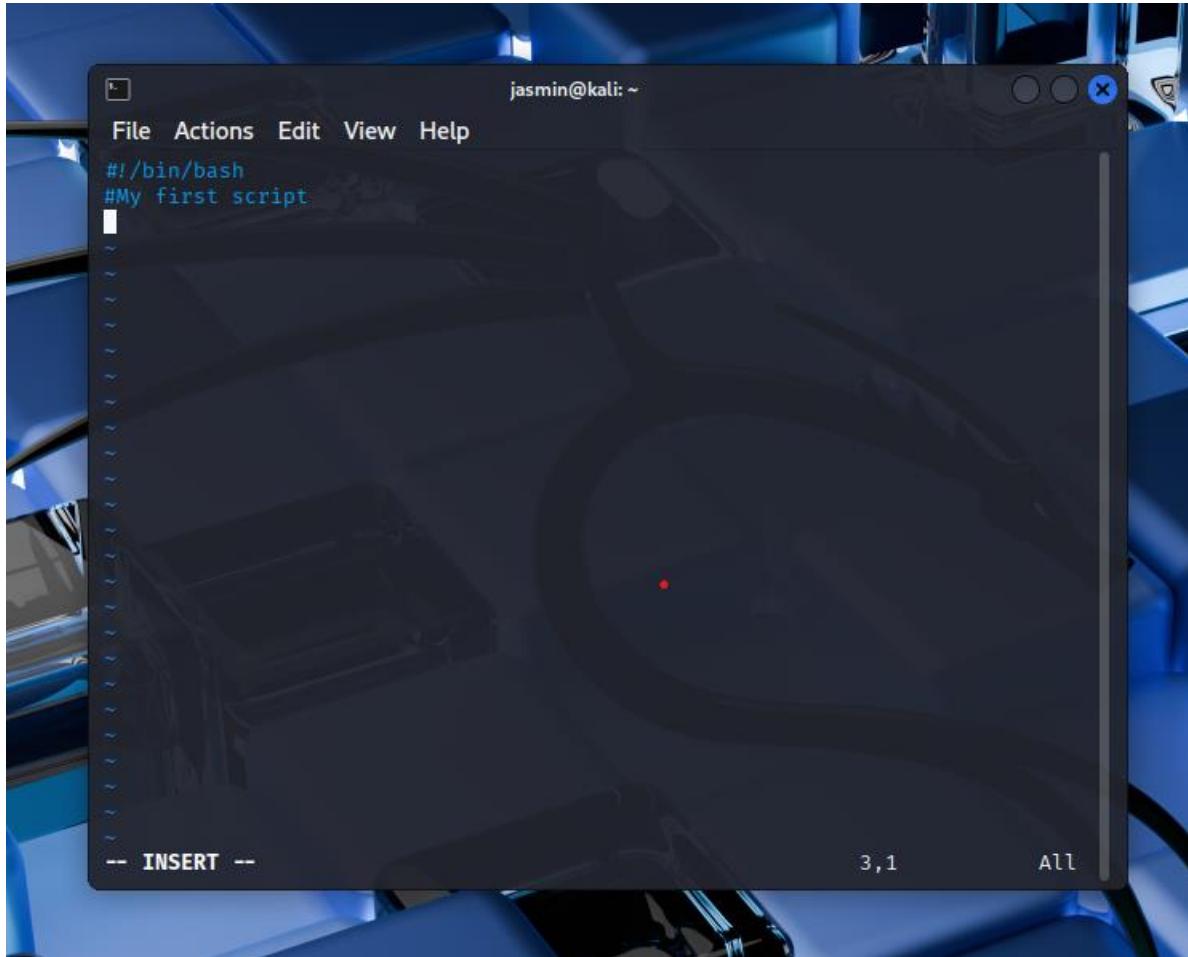


CYSE 270: Linux System for Cybersecurity Lab 8 – Shell Scripting (Total 100 Points)

Task A (Correct script (25 points) + result/output after executing the script (25 points)- Conditional Statement

Step 1.) I typed in command **vi jasmin.sh** to get into the text editor. After that I typed **#!/bin/bash** to type in my first script.



A screenshot of a terminal window titled "jasmin@kali: ~". The window shows the vi text editor with the following content:

```
#!/bin/bash
#My first script
```

The status bar at the bottom of the terminal window indicates "3,1" and "All".

Step 2. I typed **#read a number** -> **echo “please enter a number”** -> **read a number** to have a number read

```
File Actions Edit View Help
#!/bin/bash
#read a number
echo "please enter a number"
read number
```

Step 3. In the editor, I first typed #check if number is great than 10 for the output. For my if statement typed in command **if ["\$number" -gt 10];then**. To print the output I typed in command I typed in **echo “Input number is greater than 10”**

```
#check if number is greater than 10
if [ "$number" -gt 10 ];then
    echo "input number is greater than 10"
```

Step 4. In the editor, I typed **echo “input number is not greater than 10”** to check to see if the value is lesser than 10.

```
else
    echo "input number is not greater than 10"
fi
```

Task B (Correct script (25 points) + result/output after executing the script (25 points) - Shell Script to Create a new file

Step 1. I typed in command **#!/bin/bash** to add the shebang as the fist line of my script.

```
#!/bin/bash
```

Step 2. To reach the name of a file to see if it exists, in the editor I typed **#read the file name** -> **echo "enter the name of the file"** -> **read filename**

```
#read the file name
echo "enter the name of the file"
read filename
```

Step 3. To check whether the given input is a directory or regular file, I typed **#check if the file name exists**

```
#check if the file name exists
if [ -d "$filename" ]; then
```

Step 4. To check if the input is a directory and exists and then display the message "Directory exists" I typed **if [-d "\$filename"]; then -> echo "Directory exists"**

```
#check if the file name exists
if [ -d "$filename" ]; then
    echo "Directory exists"
else
    echo "File does not exist"
```

Step 5. If the input is a regular file, to display the message “It is a regular file, and the file exists” I typed echo “**It is a regular file, and the file exists**” and and I typed **echo “contents of the file:” cat “\$filename”** to display the contents of the file.

```
echo directory exists
elif [ -f "$filename" ];then
    echo "It is a regular file, and the file exists"
    echo "contents of the file:"
    cat "$filename"
```

Step 6. To display the output If the given input name in step-1 doesn't exist and then create the new file with the given name in step-1 I typed **else -> echo "the input does not exist"**
Creating new file: \$filename -> touch "\$filename" -> echo "New File 'filename" created successfully." -> fi

To check,if the output is displaying correctly I saved everything by clicking the **esc key** and typing **:wq** to save and quit. Afterwards I entered in the command **./jasmin.sh**.

```
cat "$filename"
else
    echo "the input does not exist" Creating new file: $filename
    touch "$filename"
    echo "New File '$filename' created successfully."
fi
"jasmin.sh" 28L 668B 25 61-68 Bot
```

```
(jasmin㉿kali)-[~]
$ ./jasmin.sh
please enter a number
9
input number is not greater than 10
enter the name of the file
filename.txt
It is a regular file, and the file exists
contents of the file:
```