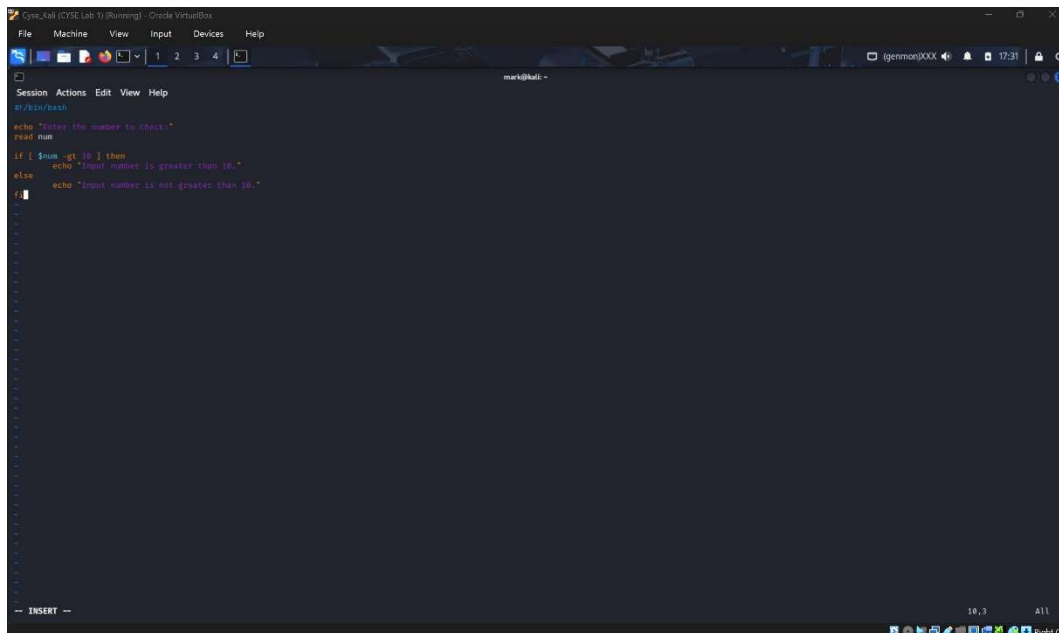


Task A (Correct script (25 points) + result/output after executing the script (25 points)-

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".

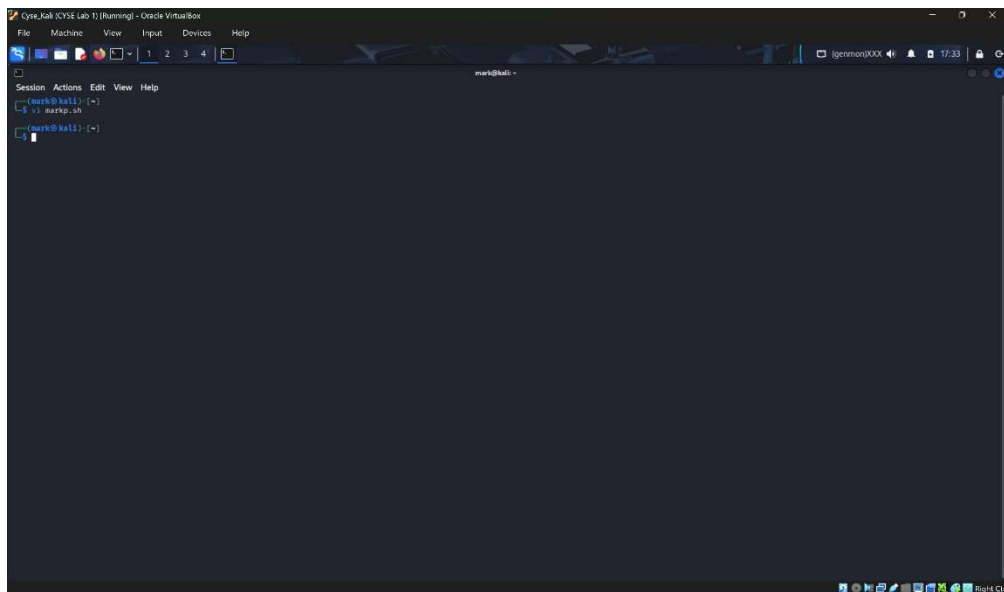
A screenshot of a terminal window titled "Cyril_Nah (CISE Lab 1) (Running) - Oracle VM VirtualBox". The terminal shows a shell script being edited in the vi editor. The script content is as follows:

```
#!/bin/bash
echo "Enter the number to check:"
read num

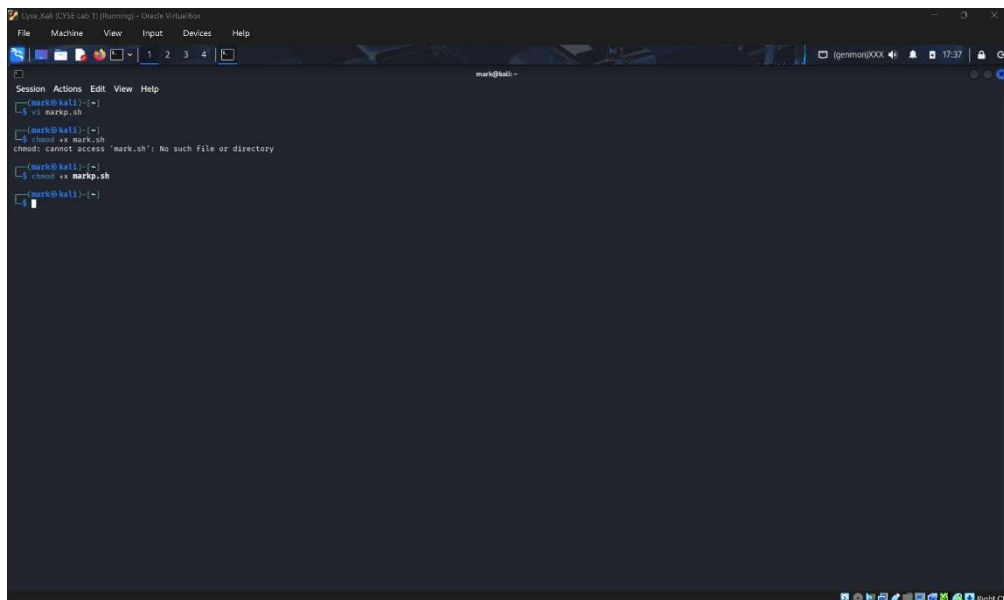
if [ $num -gt 10 ] then
    echo "Input number is greater than 10."
else
    echo "Input number is not greater than 10."
fi
```

The terminal window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The status bar at the bottom shows "10.3" and "All".

used vi markp.sh to create file and go into vi. Pressed I to insert and entered script per the lab 8 class material.



pressed esc to exit insert mode and :wq to save and quit vi.



used chmod + markp.sh to make file executable

```
mark@kali:~$ touch markp.sh
mark@kali:~$ chmod +x markp.sh
mark@kali:~$ ./markp.sh
Enter the number to check:
9
./markp.sh: line 8: syntax error near unexpected token `else'
./markp.sh: line 8: `else'
mark@kali:~$ vi markp.sh
mark@kali:~$ vi markp.sh
mark@kali:~$ ./markp.sh
Enter the number to check:
9
Input number is not greater than 10.
mark@kali:~$ ./markp.sh
Enter the number to check:
11
Input number is greater than 10.
mark@kali:~$
```

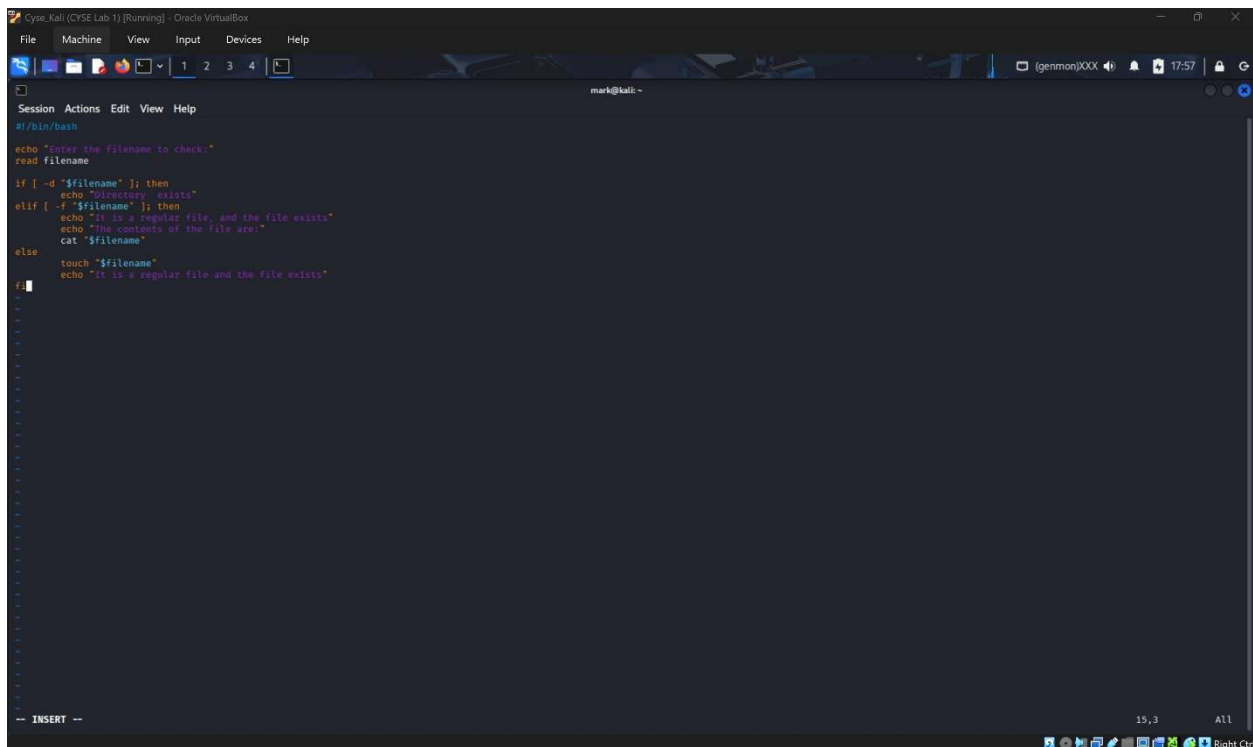
after some minor errors was able to correct syntax error and successfully run the script.

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.



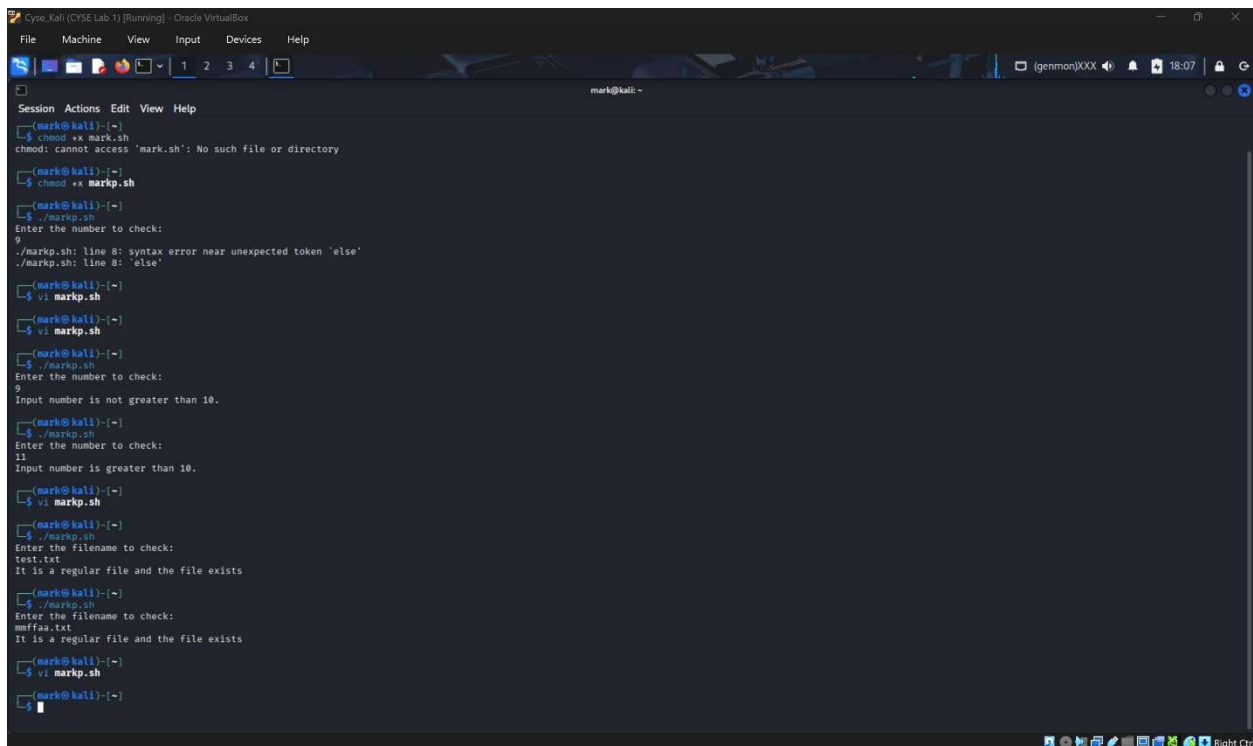
The screenshot shows a Kali Linux terminal window with a dark background. The terminal displays a shell script for checking file existence. The script prompts the user to enter a filename, then checks if it is a directory, a regular file, or if it exists at all. The script is as follows:

```
#!/bin/bash

echo "Enter the filename to check:"
read filename

if [ -d "$filename" ]; then
    echo "Directory exists"
elif [ -f "$filename" ]; then
    echo "It is a regular file, and the file exists"
    echo "The contents of the file are:"
    cat "$filename"
else
    touch "$filename"
    echo "It is a regular file and the file exists"
fi
```

used vi markp.sh to go back into the file and just edited the file with the new script. Esc to exit insert and :wq to quit vi.



The screenshot shows a Kali Linux terminal window with a dark background. The terminal displays the execution of the script markp.sh. The user runs the script multiple times, testing different inputs and using vi to edit the script. The output of the script is as follows:

```
(mark@kali):~$ chmod +x markp.sh
chmod: cannot access 'markp.sh': No such file or directory

(mark@kali):~$ chmod +x markp.sh

(mark@kali):~$ ./markp.sh
Enter the number to check:
9
./markp.sh: line 8: syntax error near unexpected token `else'
./markp.sh: line 8: `else'

(mark@kali):~$ vi markp.sh

(mark@kali):~$ vi markp.sh

(mark@kali):~$ ./markp.sh
Enter the number to check:
9
Input number is not greater than 10.

(mark@kali):~$ ./markp.sh
Enter the number to check:
11
Input number is greater than 10.

(mark@kali):~$ vi markp.sh

(mark@kali):~$ ./markp.sh
Enter the filename to check:
test.txt
It is a regular file and the file exists

(mark@kali):~$ ./markp.sh
Enter the filename to check:
mffaa.txt
It is a regular file and the file exists

(mark@kali):~$ vi markp.sh

(mark@kali):~$
```

ran script and outputs match example.

