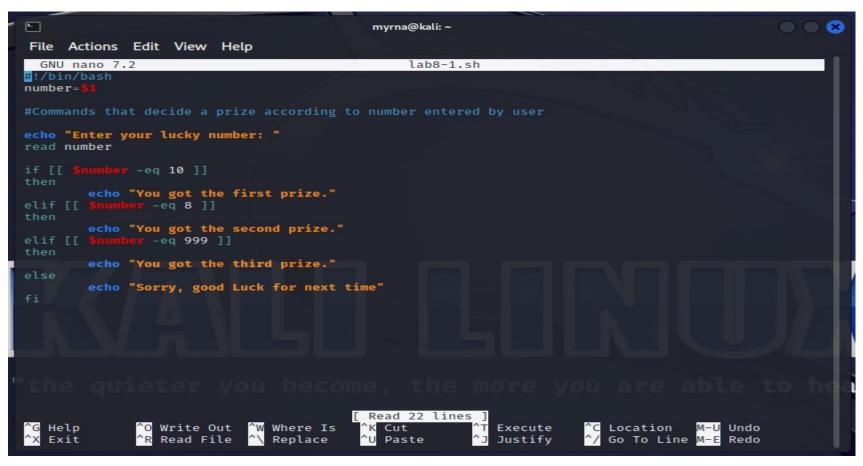
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Task A, Step 1: A shell script is written using nano with if-elif-else conditions to determine if a person won one of three prizes according to their favorite number.



Step 2: Using ls -l lab8-1.sh we verify the permissions of the file. Using chmod a+x lab8-1.sh we add executing privileges to users and verify again that it is done with ls -l.



Step 3: We use cat lab8-1.sh to read the file content and make sure the content is correct.

```
myrna@kali: ~
File Actions Edit View Help
___(myrna⊗ kali)-[~]

$ cat lab8-1.sh
#!/bin/bash
number=$1
#User is prompted to enter their favorite number.
echo "Enter your lucky number:"
read number
#Commands compare the number entered and decide if the number match one of the prizes.
if [[ $number -eq 10 ]]
then
        echo "You got the first prize!"
elif [[ $number -eq 8 ]]
        echo "You got second prize!"
elif [[ $number -eq 999 ]]
then
        echo "You got the third prize!"
else
        echo "Sorry, good Luck for next time."
fi
__(myrna⊗ kali)-[~]
```

Step 4 a-b-c: A test is performed using the correct numbers, and also similar ones to make sure that the script recognizes the correct ones and reject the others.



## Step 4b:



## Step 4c:



Task B Step 1: Using nano editor we wrote a script to ask a user for an input of 4 to 8 characters of lower-case letters and numbers 0 to 9. A while loop is use with the command egrep to perform the task.



Step 2: Using ls -l lab8-2.sh we verify the user rights to the file and we modified it using chmod a+x lab8-2.sh. Then we verify one more time that the changes took effect.



Step 3: Using cat lab8-2.sh, we verify the content of the file.



Step 4: We test the program 4 times. First test we added an uppercase letter and the program correctly ask for a valid entry. The second test we added less than 4 digits, again the program asked for a valid entry. The third test we added more than 8 characters and the program one more time asked for a valid entry. Finally, we enter the correct number of characters with corresponding types and the program gave us a correct output.

