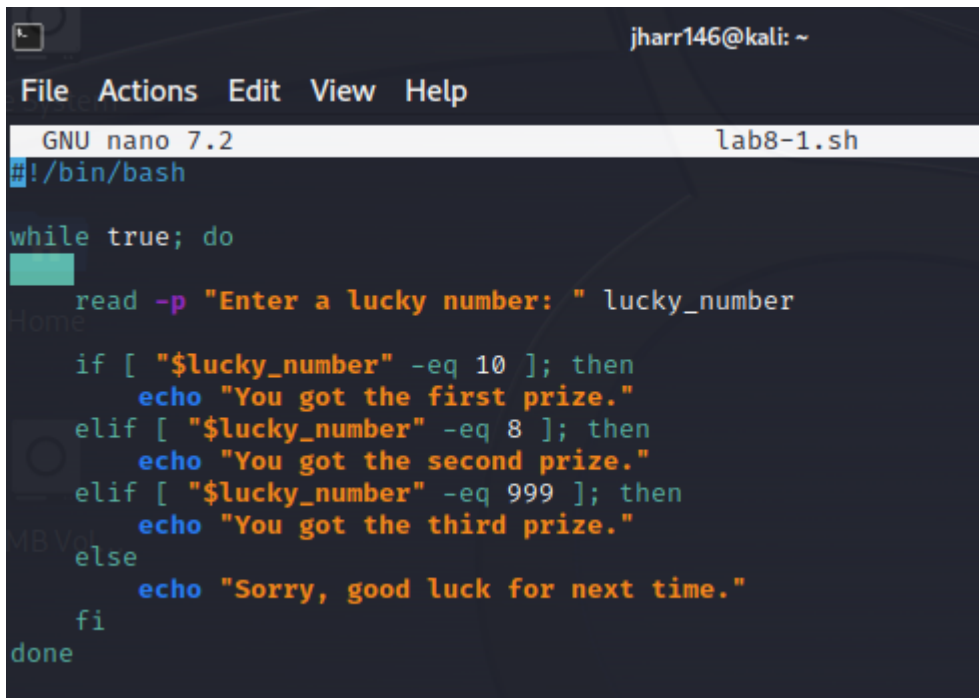


# CYSE 270: Linux System for Cybersecurity

## Lab 8 – Shell Scripting

**Task-A:** Write a shell script **lab8-1.sh** using vi/nano using if-elif-else condition, to complete the following steps:

1. Prompt the user to input his/her lucky number.
2. If the input number is equal to 10, then print the message “You got the first prize.”
3. If the input number is equal to 8, then print the message – “You got the second prize.”
4. If the input number is equal to 999, then print the message – “You got the third prize.”
5. If None of the above conditions are true, then print the message – “Sorry, good Luck for next time.”



```
jharr146@kali: ~
File Actions Edit View Help
GNU nano 7.2 lab8-1.sh
#!/bin/bash

while true; do
    read -p "Enter a lucky number: " lucky_number

    if [ "$lucky_number" -eq 10 ]; then
        echo "You got the first prize."
    elif [ "$lucky_number" -eq 8 ]; then
        echo "You got the second prize."
    elif [ "$lucky_number" -eq 999 ]; then
        echo "You got the third prize."
    else
        echo "Sorry, good luck for next time."
    fi
done
```

```
jharr146@kali: ~
File Actions Edit View Help

(jharr146@kali)-[~]
└─$ ./lab8-1.sh
Enter a lucky number: 10
You got the first prize.
Enter a lucky number: 8
You got the second prize.
Enter a lucky number: 999
You got the third prize.
Enter a lucky number: 123
Sorry, good luck for next time.
Enter a lucky number: █
```

**Example Output:**

```
└─$ ./test1.sh
Enter your lucky number
10
You got 1st prize

(svatsa@kali)-[~]
└─$ ./test1.sh
Enter your lucky number
7
Sorry, try for the next time
```

**Task-B:** Write a shell script **lab8-2.sh** using vi/nano to validate your input by using **egrep** command.

1. Prompt the user to provide the input which should consists of characters and numbers both, and check if the following requirements are satisfied:
2. Only lower-case letter [a-z] **and** numeric character [0-9] are allowed.
3. The length must be between 4 to 8 digits

Test your script with the following examples:

1. Your input with one **upper case**
2. The input having length **less than 4 digits**.
3. The input having **length larger than 8 digits**.
4. Your input in **lower case** and should have length between 4 to 8.

```
jharr146@kali: ~
File Actions Edit View Help
GNU nano 7.2 lab8-2.sh
#!/bin/bash

while true; do
    read -p "Enter a valid input (must be 4-8 characters, only lowercase letters and digits allowed): " user
    if echo "$user_input" | egrep -q '^[a-z0-9]{4,8}$'; then
        echo "Accepted."
    else
        echo "Try again."
    fi
done
```

```
jharr146@kali: ~
File Actions Edit View Help

(jharr146@kali)-[~]
└─$ ./lab8-2.sh
Enter a valid input (must be 4-8 characters, only lowercase letters and digits allowed): Qwert23
Try again.
Enter a valid input (must be 4-8 characters, only lowercase letters and digits allowed): 123
Try again.
Enter a valid input (must be 4-8 characters, only lowercase letters and digits allowed): qwertyuiop
Try again.
Enter a valid input (must be 4-8 characters, only lowercase letters and digits allowed): qwerr123
Accepted.
```

**Example Output:**

```
(svatsa@kali)-[~]
└─$ ./lab8-2.sh
Enter your input string with some character and number:
sv0
You must enter a valid input It must be lowercase characetrs and/or numbers and the length should be b
etwen 4-8!
Try again:
svatsa123456
You must enter a valid input It must be lowercase characetrs and/or numbers and the length should be b
etwen 4-8!
Try again:
sv001
Thank you! Your MIDAS ID is: sv001

(svatsa@kali)-[~]
└─$
```