

PYTHON AND SHELL SCRIPTING

SELF SCENARIO:

To check or count the number of errors in the log files.

*First create a log file.

*Take filename from user.

*Check if file exists

*Count the number of lines containing errors.

*Store output in variable.

The terminal session shows the following steps:

- Creating a log file named `app.log` with error messages.
- Writing a shell script `count_errors.sh` to read a file and count errors.
- Running the script to count errors in the `app.log` file.

```
MINGW64:/c/Users/307426
GNU nano 8.7
INFO Login success
ERROR Database failed
WARNING Memory low
ERROR Timeout occurred
ERROR Connection lost
app.log

MINGW64:/c/Users/307426
GNU nano 8.7
#!/bin/bash
# count_errors.sh
echo "Enter file name:"
read file
if [ -f "$file" ]
then
    count=$(grep -c "ERROR" "$file")
    echo "Total ERROR count: $count"
else
    echo "File does not exist."
fi

USTR+307426@5CD2452FCX MINGW64 ~
$ nano app.log

USTR+307426@5CD2452FCX MINGW64 ~
$ nano count_errors.sh

USTR+307426@5CD2452FCX MINGW64 ~
$ chmod +x count_errors.sh

USTR+307426@5CD2452FCX MINGW64 ~
$ ./count_errors.sh
Enter file name:
app.log
Total ERROR count: 3
```

-read file is used to take filename input from the user.

-first i have created a log file where i added some example error messages.

-after that i used the -f "\$file" command to check whether the file exists or not.

-later I performed the count operation using the command grep -c "ERROR" "\$file" to count the number of errors in each line.

-Then I stored the output in \$count.